

<400> 2543

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<210> 2544

<211> 576

<212> DNA

<213> B.fragilis

<400> 2544

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<210> 2545

<211> 912

<212> DNA

<213> B.fragilis

<400> 2545

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<210> 2546

<211> 1896

<212> DNA

<213> B.fragilis

<400> 2546

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<210> 2547

<211> 1365

<212> DNA

<213> B.fragilis

<400> 2547

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1365

<210> 2548

<211> 1701

<212> DNA

<213> B.fragilis

<400> 2548

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<210> 2549

<211> 939

<212> DNA

<213> B.fragilis

<400> 2549

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939

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<211> 723

<212> DNA

<213> B.fragilis

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<210> 2551

<211> 2040

<212> DNA

<213> B.fragilis

<400> 2551

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<210> 2552

<211> 624

<212> DNA

<213> B.fragilis

<400> 2552

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<210> 2553

<211> 1116

<212> DNA

<213> B.fragilis

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<210> 2554

<211> 1065

<212> DNA

<213> B.fragilis

<400> 2554

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<210> 2555

<211> 411

<212> DNA

<213> B.fragilis

<400> 2555

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<210> 2556

<211> 3006

<212> DNA

<213> B.fragilis

<400> 2556

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<210> 2557

<211> 771

<212> DNA

<213> B.fragilis

<400> 2557

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gacacagctt	tatacgaacc	ggccaacgaa	ggactgggta	tcggtgattt	tggtgaaaaa	660
gcccgcgaagc	tattcgaaca	ggaaaaaatt	tcagaagggtc	actatataga	gttactccat	720
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<210> 2558

<211> 216

<212> DNA

<213> B.fragilis

<400> 2558

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gttacctttg	tagcagattt	cagtactaaa	aagagggtta	gtcataaggg	aacgctgtgc	180
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<210> 2559

<211> 801
 <212> DNA
 <213> B.fragilis

<400> 2559

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cagacgggac	cggataaggt	gaagcctttc	agccatttat	ccgtttcgct	gaatgccgga	180
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<210> 2560
 <211> 1059
 <212> DNA
 <213> B.fragilis

<400> 2560

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gggcgttttc	tgccctttta	taccctgaca	ggggcgatg	ccgatgatga	aataaatttt	360
gaggatgtgt	cgttcctggt	atggctcgctt	ctttctcctg	tcacagacga	ttctccggtt	420
ccttggaatc	cgacggataa	atctctgctt	cgacttgcca	ctgatattta	tgcgctactt	480
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<210> 2561
 <211> 279
 <212> DNA
 <213> B.fragilis

<400> 2561

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aaacggttaa	tagagtccat	gctcgacaag	gcagcggatg	aatacgatgg	gaacgaatcc	180
taccgctacc	tgtctgaaaa	ttaccctgat	ggaaaggtaa	tgctgggaaa	ggaagaacgt	240
gaagagttaa	tagactgggt	gggagtgggt	gagaaatga			279

<210> 2562
 <211> 930

<212> DNA

<213> B.fragilis

<400> 2562

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<210> 2563

<211> 618

<212> DNA

<213> B.fragilis

<400> 2563

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<210> 2564

<211> 459

<212> DNA

<213> B.fragilis

<400> 2564

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<210> 2565

<211> 2460

<212> DNA

<213> B.fragilis

<400> 2565

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gtatgccaaa	gtgagaatat	tttgccgatg	cgccgcac	caggctacct	gaccggagac	2400
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<210> 2566

<211> 1446

<212> DNA

<213> B.fragilis

<400> 2566

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ttgaatatat	tatctgctga	agaaattgga	atgaactact	tgatgctcac	tataggaggt	180
ttagtttcac	tttttagattt	tggttttgct	ccacagtttg	gaaggaaat	tacatatatt	240
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tataaattat	tggttacaat	gatttcagcc	gcaaagttga	tttataaagt	tatggctggt	360
gtcgttttag	ttataatgct	tactttgggc	actgtttata	tttataaagc	aacaatggga	420
tttacaagtg	taaagtatgc	gttggttaatt	tgggttaattt	attctatttc	tgcatttttt	480
gcgatatact	atacttatta	tacgtctttg	ttgatgggga	aaggggtgat	aatggagtcg	540
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atgggggtggg	gacttttagg	tatagcgggt	gctaacttac	ttgctccttt	tgtgaatcgt	660
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ttagcattag	gattaaagga	aactttta	aaaatcagat	tgtcactttt	tatgttaaaa	1440
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<210> 2567

<211> 285

<212> DNA

<213> B.fragilis

<400> 2567

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ataaaaaaca	aacagtgtta	cttaaaaaac	aaaaagacag	atgcgtcgta	ctttttacca	180
cggagtatca	cagagccttt	ttttgtta	gatcaacgac	tgaaaatcga	ctccatgtta	240
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<210> 2568

<211> 1005

<212> DNA

<213> B.fragilis

<400> 2568

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attcttgtaa	atgacggttc	tatcgacaat	agtccgtatt	tgtgtgatat	atatcaatct	180
aaggatgaga	gagtaaaaac	tgtgcataag	aaaaatggtg	ggctttctga	tgcaaggaac	240
gttggtttga	ctttggctaa	aggtgaatat	ataattttcc	tagatagcga	tgatttttgg	300
atatcacaaa	acgatttaca	gttattagtt	catcgactgg	attctcttat	aaattgtgac	360
ttcatgtgct	tcaattgttg	ctattattat	ccgtcaaaac	atttattcaa	aagatggact	420
ccttttgcag	atgaattatt	attgagtgtg	gataaatcta	aaagtattat	atctttggtg	480
agctctggaa	cattttccaat	gagtgccttg	ctaaaaatta	ttcgaagaaa	ttttttgcta	540
gagaataata	ttacttttca	aaaagggatt	caatcagagg	atatactttg	gtttatggaa	600
ttgttggaga	aagcacattc	catagcattc	ttaaatcaat	acatatatgc	ttatagacgt	660
gaagtggaaa	attcgataac	atcttcattc	acacctaaaa	aatataatga	cttgttttct	720
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ccatttgcgt	tgagaaaaga	gttggagggc	aagttgtttc	aatataattg	gttacttaaa	900
tataagctaa	atcctaaagt	aaagaaagta	tctttttgta	tgcgtttttt	gggcaaacgt	960
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<210> 2569

<211> 291

<212> DNA

<213> B.fragilis

<400> 2569

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ttggtctcgg	ctcttcgggt	gaatgatatc	accaggctgc	aagatgaaat	aaaagagtta	120
aaagaatatg	tagaagcggc	atttgccgat	tacaatgata	ttaatgaaga	tacgaggatg	180
caacttgaat	taattaatca	ggcaattgct	gaattgcagg	ccaaagacaa	acaggcaggc	240
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<210> 2570

<211> 357

<212> DNA

<213> B.fragilis

<400> 2570

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tttaaggcag	aagacaagat	accgagccat	tacattaaat	tcattcgtga	tggagtatat	180
gaatttcgtg	tggcctgtgg	gaacaatgaa	ttacgcattc	tttttatcta	cgacgggtgag	240
aacgtagtgg	tattgttcaa	ttgttttagg	aagaagacgc	agaaaacccc	tgataacgaa	300
ataaagaaag	ctataaactt	aaaaaaagaa	tattatgaag	ctaaaggaaa	taagtaa	357

<210> 2571

<211> 720

<212> DNA

<213> B.fragilis

<400> 2571

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gatgcatggg	ctttacctag	ggataaggcg	ttggaattgt	tggtttatct	taaacagcaa	120
ggtgtcaggc	agatctactg	tgtacctccg	gtaaagggtg	aaaatgaagg	gaatgctttt	180
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caaccggaac	gttcgcttta	ttggggaacg	gaagactatc	tgcacttgcg	ggaatcgga	480
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tacagccgta	tggtgttgag	aaaggagtgg	tatacatatc	tctgttcggg	tagggaggat	600
acgaaagtga	tgcgctatgg	tgaatcgttt	tcgatagagg	atgatgatga	tttggcgatg	660
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<210> 2572

<211> 504

<212> DNA

<213> B.fragilis

<400> 2572

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aacatgggaa	atacccttta	cgtagtaatc	gtcaatgaaa	aaagtgcga	aggacagaaa	180
gtgttggaag	cactggaaga	aaacatagaa	aagatggata	taggctcgca	tagggagctt	240
gtcatcttct	ttttcgtatg	gctgaaccat	cagcagaaag	atcccaaaaa	gagaaaaaac	300
atacgggaac	tggcaaagat	catgcaccgg	tactgtttct	tcggacaaaa	acacaacagc	360
aacgaggaga	tgaagccgga	ttccattgaa	actgagatat	ttaagatact	aaggatatta	420
aaaagcatga	aaaaagcgga	agataaagac	ttgattataa	atctattaga	cgatatcagc	480
ctgtttcttg	atgaaaacgt	ctaa				504

<210> 2573

<211> 558

<212> DNA

<213> B.fragilis

<400> 2573

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acagtgggtg	actttgtaca	ctgcgccagc	atcgacgaac	taaaaaacta	catccccgta	180
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gccagcatcc	gcctgttcga	aaaatgcggt	ttcgaatgtt	gcgcaaacad	ccggcaggta	480
gcggagaagt	tcggcaaaaa	actggatttg	aggatgtatc	agaaaattat	ttcagacaat	540
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<210> 2574

<211> 183

<212> DNA

<213> B.fragilis

<400> 2574

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aggatataagg	atgaagatac	cggttcaaac	ggcgtaaatt	cacttcctaa	acttgagtta	180
taa						183

<210> 2575

<211> 1113

<212> DNA

<213> B.fragilis

<400> 2575

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tataatttgc	acattgtcga	agcattgcgt	aaagagctgg	tcggcattgc	taccgcgaat	180
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gaccggatgg	ggaatattgc	cgaatattat	catatcgact	acgagctcct	tgcttttgat	360
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gaaaaagggc	atggtaaatg	gcgttttact	tcaccgaccc	atgtgggtgcg	tgctttcaag	780
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aaagcggata	ctttccgtat	cggtaatatc	ggagatgtac	atccggagga	ctttgcccg	1080
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<210> 2576

<211> 210

<212> DNA

<213> B.fragilis

<400> 2576

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agtgccaaat	tgtaaactca	tactaaatct	gctcttgaca	aaaagaaggc	aagaacagag	180
atgttgtatc	tttgtttctt	tgtaaactaa				210

<210> 2577
 <211> 1167
 <212> DNA
 <213> B.fragilis

<220>
 <221> unsure
 <222> (348), (460)
 <223> Identity of nucleotide sequences at the above locations are unknown.

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 gtgctcgatg cactgactta tgccggaaat cttggaacga ttgccaacga cattgataac 180
 gaacgggtgct tttttgtgaa aggtgacatt tgcgatcgtg aactggccga ccgccttttt 240
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 tgttcaaaca actacgggtc gtatcatttt ccggagaaac tgattccgct gattatcaag 660
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 aatgccttgg gttggtatcc cgaaacgaaa tttgaagtcg gcattgtgaa aacaatcgaa 1080
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<210> 2578
 <211> 1371
 <212> DNA
 <213> B.fragilis

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 aagaaaagtg agacagaata tgctgtcggg tggttacctt tggggggata tgtcaaaata 240
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<210> 2579
<211> 666
<212> DNA
<213> B.fragilis

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gacaacaaga actcttccga ctccaccatc gtgaccgaat acactgacat agtggatagc 180
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aaataa 666

<210> 2580
<211> 738
<212> DNA
<213> B.fragilis

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gatgaagcgt tgtctttcat cgatagtcac gccattcctt tggatgcggg agccgtcagt 240
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gatcttcac cggttgcaaa gatgatgttc ccgcttgacg aaaagaccgt tgcaatcaac 660
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ccaagaagt tactttaa 738

<210> 2581
<211> 918
<212> DNA
<213> B.fragilis

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<210> 2582

<211> 933

<212> DNA

<213> B.fragilis

<400> 2582

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<210> 2583

<211> 609

<212> DNA

<213> B.fragilis

<400> 2583

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<210> 2584

<211> 441

<212> DNA

<213> B.fragilis

<400> 2584

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<210> 2585

<211> 1317

<212> DNA

<213> B.fragilis

<400> 2585

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<210> 2586

<211> 465

<212> DNA

<213> B.fragilis

<400> 2586

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<210> 2587

<211> 633

<212> DNA

<213> B.fragilis

<400> 2587

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<210> 2588

<211> 1425

<212> DNA

<213> B.fragilis

<400> 2588

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<210> 2589

<211> 3099

<212> DNA

<213> B.fragilis

<400> 2589

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<210> 2590

<211> 420

<212> DNA

<213> B.fragilis

<400> 2590

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<210> 2591

<211> 1452

<212> DNA

<213> B.fragilis

<400> 2591

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<210> 2592

<211> 1290

<212> DNA

<213> B.fragilis

<400> 2592

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<210> 2593

<211> 1347

<212> DNA

<213> B.fragilis

<400> 2593

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<210> 2594

<211> 1449

<212> DNA

<213> B.fragilis

<400> 2594

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cgtgacattt	ttctgcaacg	tccttctaaa	gatatagatg	tagtagtggt	ggggagtggc	180
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aagaatttctg	gtacggccca	ggtgaagtgt	cacggtacgg	aggtggagtt	tgtaggtgcc	300
cggaggaggt	cgtatcaacg	ggattcccgt	aaaccgatgg	tggaggacgg	gacgttgga	360
gacgatcaga	atcgccggga	ctttacgatc	aatgcactgg	ctgtctgcct	gaacaaaggg	420
cggtttgagg	aactggtcga	tccgttcggc	ggcatgaatg	atttgaagga	gaagatcatt	480
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gctaacagag	aacggattga	gateatttca	cgtgaacgca	ttgccgacga	attgaataag	660
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<210> 2595

<211> 618

<212> DNA

<213> B.fragilis

<400> 2595

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ccacacggca	tacacgggtga	attgtcggtc	acctttaccg	acgatatattt	cgatcggggc	180
gattgtgatt	atctgatttg	ccggttagat	gatatttttg	ttcctttctt	tatagaagag	240
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ggtgcttttg	gagaggtgac	ggatgtggat	acgtctaccg	ttaatacact	gtttgttgtg	480
gaccgtgatg	gcgatgaatt	gctgattcct	gcacaagaga	aattaattgc	cggtatcgat	540
cagaagcaca	aaatcattac	agtcgatttg	cccgaaggtc	tgctgtcttt	ggacgagtgc	600
gatgatgaag	aaagttaa					618

<210> 2596

<211> 297

<212> DNA

<213> B.fragilis

<400> 2596

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gaaggtcgtc	ttcaccacag	atttcacaga	tgcacttcca	atgttatcgt	tgatagtcgg	180
tccgataaac	cattgatatt	tgtgcaatct	gtgggtgattt	cgacgcttgt	ttatttatat	240
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<210> 2597

<211> 1215

<212> DNA

<213> B.fragilis

<400> 2597

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aacattgaaa	ccaataataa	agagtgtcaa	gccaatgcgc	aattgattgc	ctctcaaaaa	180
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aataataaag	acaagaataa	tacgatcgga	gaacttgtag	tctcccagag	ctttgatttt	300
ccgagcctgt	atgctacccg	cagtcaactg	aaccggctga	aagccgggtgc	ttttgacggg	360
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agcaaacaga	actatctgca	actggagaat	cagtaccaga	aggcaatggc	aaagatatat	1200
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<210> 2598

<211> 531

<212> DNA

<213> B.fragilis

<400> 2598

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tccaagaata	atattaccta	tctgactaca	cttgattttt	tatattatgc	ttactgcaga	420
aagaaaatga	cagagcaaga	gtgtaaggaa	ttcatgcagg	aagtaaataa	tgcgggaagc	480
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<210> 2599

<211> 903

<212> DNA

<213> B.fragilis

<400> 2599

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acaggaaaac	aaatcagcta	cggagaatta	atcaaacgac	tctccggcta	tgatgttata	180
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aatacgagta	tagtgacggg	aacctcggtg	cgtaagaggt	ccatccggaa	actggatgac	840
gaccataaag	gcttggcaga	cttttacatc	tgcgtaccgg	aagacatggg	aaacagttac	900
taa						903

<210> 2600

<211> 318

<212> DNA

<213> B.fragilis

<400> 2600

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acaaaagtgc	agttggctct	gctttatgca	ccccattgt	ctgaaaatgc	cgccctcaat	180
aatctcagcc	gttggatgcg	gcacaacaaa	ctcctgatgg	ctgcgctcga	ggaggtggga	240
tactataaat	accgccattc	atttacgccc	aaggaagtcc	gtctgatctt	tcgatatatg	300
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<210> 2601

<211> 888

<212> DNA

<213> B.fragilis

<400> 2601

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<210> 2602

<211> 1188

<212> DNA

<213> B.fragilis

<400> 2602

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gaggtgtatg	cactgactgc	caataataag	gtagatctcc	tgatagccca	ggcacgtaag	180
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gaacatacca	tggggcagggt	gtctttcgta	cagactccta	cttacgacga	gtatgtggca	1140
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<210> 2603

<211> 879

<212> DNA

<213> B.fragilis

<400> 2603

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gcaggaacgg	cagtcgatta	cggatgtttc	gtccgggtgg	ctgctttcat	caaagctttt	180
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aaacaacgta	tgctggctgc	gggagcctcg	tatgtcattc	gaagcattga	agaacttccc	840
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<210> 2604
 <211> 327
 <212> DNA
 <213> B.fragilis

<400> 2604
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 aaaagaaaaa ttgccaccca atttgaagaa gaaccttttt cgatgtgttt cggttgccgc 180
 accttcgtta tcgaaatacc ggattctaag attattatgg cagaaaattc aaaacagttt 240
 cttctaacca agatgtcttt tttatccatt tacagcgatt atcttaaaat tatcccgtat 300
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<210> 2605
 <211> 288
 <212> DNA
 <213> B.fragilis

<400> 2605
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<210> 2606
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 <212> DNA
 <213> B.fragilis

<400> 2606
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<210> 2607
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 <212> DNA
 <213> B. fragilis

<400> 2607
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<210> 2608
 <211> 2106
 <212> DNA
 <213> B. fragilis

<400> 2608
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<210> 2609

<211> 417

<212> DNA

<213> B.fragilis

<400> 2609

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<210> 2610

<211> 300

<212> DNA

<213> B.fragilis

<400> 2610

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<210> 2611

<211> 1122

<212> DNA

<213> B.fragilis

<400> 2611

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<210> 2612

<211> 2868

<212> DNA

<213> B.fragilis

<400> 2612

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<211> 2163

<212> DNA

<213> B.fragilis

<400> 2613

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<211> 2766

<212> DNA

<213> B.fragilis

<400> 2614

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<211> 2103

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 <212> DNA
 <213> B.fragilis

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 <212> DNA
 <213> B.fragilis

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 gagttgcgcc cacttttaa 318

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 <211> 540
 <212> DNA
 <213> B.fragilis

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 <213> B.fragilis

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 aactacgaag aggacgtaga aaaggcactt ctccgattag gcttcatgcg cgaagatttc 480

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<211> 1422

<212> DNA

<213> B.fragilis

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<211> 570

<212> DNA

<213> B.fragilis

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<210> 2627

<211> 498

<212> DNA

<213> B.fragilis

<400> 2627

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<210> 2628

<211> 627

<212> DNA

<213> B.fragilis

<400> 2628

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<210> 2629

<211> 873

<212> DNA

<213> B.fragilis

<400> 2629

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ggttacctga	tcgaggtaca	gcataaccag	gattttgtat	cagtctataa	acattgcggt	720
tcgttgctga	agcgtgaagg	cgatactgtg	aagggaggtg	aagctattgc	cttgggttga	780
aatagcggaa	cgctcactac	cggtccgcat	cttcattttg	aactttggca	cagaggacgg	840
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<210> 2630

<211> 558

<212> DNA

<213> B.fragilis

<400> 2630

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tatatggaag	acgtaagtat	agacaagatt	gcggggataa	cgggggtgcc	ggtaggaacg	480
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<210> 2631

<211> 1026

<212> DNA

<213> B.fragilis

<400> 2631

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ttttcagaaa	aagaaatagt	agatcgtata	tcaaaggtag	attcagtatg	ggtattaggc	420
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<210> 2632

<211> 906

<212> DNA

<213> B.fragilis

<400> 2632

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gacggaaaat	tcaattggat	accggcattg	atctgctgtt	tgttcgccgg	actgatgcag	180
gttgccgcca	atttcatcaa	cgattttatt	gactttctaa	aagggaacca	ccgcgaagat	240

cgtctcggac	cggaacgtgc	ctgtgcacaa	ggctggattt	cggcagccgc	gatgaaacaa	300
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<210> 2633

<211> 723

<212> DNA

<213> B.fragilis

<400> 2633

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<210> 2634

<211> 1107

<212> DNA

<213> B.fragilis

<400> 2634

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gatagaatca	gggataataa	atgttga				1107

<210> 2635
 <211> 432
 <212> DNA
 <213> B.fragilis

<400> 2635

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attagagagt	tatccggttt	tacgcaagaa	caagtagccc	aatctattaa	gatagaacgc	180
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<210> 2636
 <211> 2328
 <212> DNA
 <213> B.fragilis

<400> 2636

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gtaagtatgg	tttatctgac	catgatccag	gaagcacaaa	acgtagtcac	ttatacgatc	2280

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2328

<210> 2637

<211> 894

<212> DNA

<213> B.fragilis

<400> 2637

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<210> 2638

<211> 915

<212> DNA

<213> B.fragilis

<400> 2638

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catctgaaat acttcacag tacgcttgaa agtggcagcg gacaaggtaa aaagctggga	780
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<210> 2639

<211> 1131

<212> DNA

<213> B.fragilis

<400> 2639

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attgtagctc ctttggtatgt aaaattccaa aaagaattgg agaagttagg gtgtaagttt	180
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cctaataattt atgggagtat tgcagcttca atgttgacaca tcccacatat tgcaattatt	360

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caaagagtta	ccatgggaga	agctgggcgt	gtaaaaatgc	agtgtgagtt	cgatataaaa	1080
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<210> 2640

<211> 378

<212> DNA

<213> B.fragilis

<400> 2640

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cgccatcgaa	gtgaatat	ccattatgcg	agcttttgta	gctgtccgcc	aattgggtctc	360
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<210> 2641

<211> 342

<212> DNA

<213> B.fragilis

<400> 2641

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ttcacttttg	gaggtctgca	agccaccatc	agtacactgc	gcgaagtatt	tgtctcgatg	240
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<210> 2642

<211> 195

<212> DNA

<213> B.fragilis

<400> 2642

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agagagctgt	tttattgcaa	ttttgttctc	tggagtaagc	aaattgtcta	cattttgttc	180
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<210> 2643

<211> 456

<212> DNA

<213> B.fragilis

<400> 2643

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cttaatgtgg	ttgctttaaa	ggataataca	gctactaact	atattacaga	ctttgaagcc	300
ggtaagggtat	actttattaa	ccttgccgat	atcaaggata	ttatggatgt	tccggttcct	360
cctgtaactc	cggaccccga	tccggaaact	gtttctgtag	atcttactgt	aagcataggt	420
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<210> 2644

<211> 621

<212> DNA

<213> B.fragilis

<400> 2644

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actgtgaagc	tgccagagtt	cggcggagct	tcgagtagag	ctattgatcc	tgagactact	180
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gtttctgggtg	cggcacagtg	gattgaggta	gaggctaattg	gtgataatag	tactgaaact	360
gataatgtaa	acactcgtca	aggatcagct	acatcaagta	aagtgcgttt	gtttggagga	420
gcaacgataa	atccaggaag	tggtggaaat	gcaacttgca	ctccgacaat	aaaccctgat	480
atggcgcggtg	tggaagtaaa	gggtagtctg	gccggcccct	ggacacatct	gaatgattta	540
aagataaagg	ggatttacat	taataatgtt	aagcttacca	gagggtgcttc	ttcattgacc	600
agaattgtgt	cggctgctta	g				621

<210> 2645

<211> 804

<212> DNA

<213> B.fragilis

<400> 2645

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ttgaagatag	caggtatcag	tctcctgcta	ttctgcacga	catcacaaat	tgccgtagca	120
gacagttatg	aaaaaaatgc	tgtcacagcc	acacagcaga	gtaaaacaga	gaaaataaca	180
ggtaaaatag	tcgatgagag	cggagaggcc	atcatcggtg	cctcggtaaa	agtacaagga	240
agcactatcg	gtaccatcac	caatatggaa	ggagagttaa	tgataccgaa	tgtccccaac	300
aaggccgtac	tcgaaatcag	ctacatcgga	tacaagccct	tagaagtgcg	tgtcggaaaa	360
tccaaagatt	tacgcatcac	gatggaagaa	gacactaaaa	cgctggatga	agtcatcgta	420
gtaggttacg	gtacgacttc	taaacgcaaa	acaaccgccg	ccattgccag	tgtcaataca	480
gaagacatta	tcaaagcacc	gacggcaaac	atcacccaaa	gcctggcagg	acgtgctccc	540
ggtctgttgg	tcacaaccag	cggaggcggt	ctgaataact	tttccagtgt	ctctatccgt	600
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aatctgaatg	ctgaagacat	cgatcagatc	acaatcctga	aggacgccgc	ttctaccgcc	720
gtttacggag	cacgtgccgc	caacgggtatc	gtaatgatag	taaccaagca	agggcaaagc	780
agggaaaatg	agcgtcaatt	ataa				804

<210> 2646

<211> 1623

<212> DNA

<213> B.fragilis

<400> 2646

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gaaggctttg	aaaaagggtca	agtaacagaa	ttgggtgctg	taaacgtaat	gactggcggt	180
tacactggcc	gttctcctaa	agataaattc	ttcgtttaaga	atgaagcttc	tgaaaattca	240
gtatgggtgga	cttctgaaga	atacaagaac	gacaacaaac	cttggttcaga	agaagcttgg	300
gctgacctga	aagctaaagc	cgttaaagaa	ctttctaaca	aacgcctgtt	cgttggtgat	360

actttctgtg	gtgctaacga	aggtagctgc	atgaaagtac	gtttcatcat	ggaagtagct	420
tggcaggcac	acttcgtaac	taacatgttc	atccgcccga	cagctgaaga	acttgctaac	480
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gctgatcctg	cacagtggaa	tgaaaaagca	aaagaccttg	ccggtcgctt	catcaagaac	1560
ttcgctaagt	tcactggaaa	cgaagctggt	aagaagttgg	ttgctgctgg	tccgaaactc	1620
ttaa						1623

<210> 2647

<211> 1617

<212> DNA

<213> B.fragilis

<400> 2647

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ctcagtgttt	ttgtcggggg	gatgttatcc	ttaaagttgc	tatgttatag	ccttttcttt	180
tcatatagtt	tcttgcttgg	atataaggca	caaacaggag	gtgggtattat	tattcttgta	240
cttttgctga	ttttagggct	ttttttatgg	caatcattta	ttagttgggt	tgaacccggg	300
acgttggtgg	gggaagcagt	gggtgccatt	atattcttgg	gagtaattct	ttctgtcggg	360
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tttgccatcg	tagcgtttgt	ttatattaca	gtctgtttgt	cgacagtatg	tggcgcttat	480
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gtttttcggt	tcaatgataa	aaaagagtat	gtcgggtata	gtgccagcat	gtatgagagt	660
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gaccggaaaa	ccggatttca	tattgaaaga	gagaaaaaca	tagaatttga	cgaactaggt	960
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ttaggtggtg	tgaatgggca	tgcaatatcg	gtatatgtaa	atacggacga	atataaatgg	1260
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tcaatgggtg	tgggtgaaga	cgatgaatgt	tgcagctttg	tactgaaaga	agttgtcaaa	1440
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ttctgctttt	attttaatcc	ctctattcat	aaagacatgg	agatacagaa	aagagctggg	1560
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<210> 2648

<211> 183

<212> DNA

<213> B.fragilis

<400> 2648

aaaagagccc	tattcctgaa	agatatcatc	catttgctct	tcaaagacat	aattatcatt	60
ctgataagta	cctctcgctt	cgagatcaaa	agaaaaaatc	aaccgaacga	tacaattccc	120
cagtacggag	acgaaataaa	tcatacaaa	aatgaaattt	gcgtaaagaa	tggaattatt	180
taa						183

<210> 2649

<211> 1914

<212> DNA

<213> B.fragilis

<400> 2649

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gattccggcg	acggtatgca	gttggccggc	aacatcttct	cgaacgtgtc	ggctacgggt	180
ggaaatgaca	tctgtacatt	tcccgattat	ccggcagata	tccgtgctcc	gcaaggggtca	240
ctgacgggcg	tatcagggtt	tcaggtagac	gtcgggtgca	gtaagatatt	cactccgggt	300
gatcattgcc	acgtattggg	agctatgaat	cccgcgcgac	tgaaaacaca	aattaaattc	360
tgcaaaccgc	aggggctggg	catcacagat	tccgactctt	tcggagaaaa	agacttgga	420
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cccaccaact	gttttgatgc	tgcttatatg	gctgctaaaa	tagctcttga	acacatgact	1260
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gaaggattca	tgcatcgat	aggtgggctc	gagaagagca	gtgaaacagg	cgttatttcc	1500
acagaaccgg	aaaatcacca	gaaaatgaca	cttctgcgtc	aggccaaagt	cgacaagata	1560
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tatctgcgca	tgaaagtacc	cggactgaat	atcagccagt	tcaaccagggt	aaaaggccag	1860
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<210> 2650

<211> 669

<212> DNA

<213> B.fragilis

<400> 2650

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attgaacgta	tcggcgaggt	aatggcttat	gaaatgagca	agacgtttgc	ttattcggtg	180
aaggagatac	aaactccatt	ggggatagca	cctgtcagaa	caccggacaa	tccattgggt	240
attagtagca	ttcttcgtgc	cgggttacct	ttccaccaag	gattcctgag	ctatttcgat	300

tatgccgaga	acgcttttgt	ttctgcttat	cgtaagtaca	aggatacggt	gaaattcgac	360
atacatattg	aatacatcgc	ttcaccgcgt	atcgacggga	aaactcttat	cattacagat	420
ccgatgcttg	ccaccggcgg	aagtatggaa	ctgagttatc	aggccatggt	gacgaaggga	480
catccgtctg	aaattcatgt	tgcttcgatt	attgccagcc	aaagggctgt	cgatcatata	540
gccagtattc	tgccggagga	taaaactaca	atttggtgtg	cagctatcga	tcctgagata	600
aatgaacact	cttatattgt	ccccggattg	ggtgatgcgg	gtgatcttgc	ttttggcgag	660
aaagaataa						669

<210> 2651

<211> 1014

<212> DNA

<213> B.fragilis

<400> 2651

gagatgagcg	aaacagtata	tacagcaaaa	gattataaat	caggtcagcc	tcgctgggtg	60
ccgggatgcg	gtgaccatgc	tttcctgaac	tccttgca	aggctatggc	cgaactggga	120
gtagctccgc	acaacattgc	cgtgatctcc	ggtatcggct	gttcttcccg	cctaccttat	180
tatgtcaaca	catacggctt	ccacaccatc	cacgggcgtg	ccgccgctgt	tgcgacaggt	240
gccaaaggtag	ctaatacggg	tttaaccatc	tggcaaatct	ccggtgacgg	tgatgggtctg	300
gccattggcg	gtaatcattt	catccatgcg	gtacgccgta	acatcgactt	gaatatgatc	360
ttattgaaca	accgcatcta	cgggttgacc	aaaggtcagt	attccccgac	ttccgaccgt	420
ggattcgta	gcaaatcatc	tccttacggc	actgtagaag	atccattcca	cccggcagaa	480
ctctgtttcg	gcgcgcgtgg	ccgtttcttc	gcacgttggt	ttgcggtaga	cggaccggct	540
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caaaactgcg	tcattcttta	tgacggcaca	cacgaatcgg	tcgcaacgaa	agaaggacgt	660
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gctcctacct	ataacgatgc	agtcgccgag	cagattgatg	aagtgaaagc	caaaaagaag	960
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<210> 2652

<211> 183

<212> DNA

<213> B.fragilis

<400> 2652

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ccttttccga	gattatattt	taagattctg	attatcaata	tgcttgtctt	tgagctgcct	120
gaccaactct	cttgggggaat	taccgaaatt	ctttttgcag	tatttattga	aactggccgc	180
tga						183

<210> 2653

<211> 1248

<212> DNA

<213> B.fragilis

<400> 2653

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gagtattctc	ttgggtggaa	gattcatact	tctaatttct	ctgcagatcg	tgagcgtggt	180
gtctattcat	caaccggtaa	tcttaagcgc	aaggatctgg	gacttatcaa	tgatgccatt	240
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gcttttattg	tgcgtgagat	agagaggctt	cggcaggagg	ggcgttctgg	tactgccggc	420
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cgcgagttga	cttattgttt	tcttacggat	tatatttatt	ttctacgtat	gcgcggtatc	540
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aagcagggga	taaatatggg	ttgtgagtct	cccttcggg	agcttaagct	tcaaactcag	660
gagactgcga	agcgtgcgtt	gtgtaagcat	gatattgccc	gtatagtatc	tgttgatctt	720
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agctgggcga	ctattgccaa	agaggaggga	ttttctatcg	catctatcag	cgaagggtct	1140
gggcatactt	ctgaggcaac	gacccagatt	tatcttcagt	cttttaatag	tgagggtcatt	1200
gataagatta	acgagcaggt	cgtagcctcc	ataggaaggc	atatctga		1248

<210> 2654

<211> 354

<212> DNA

<213> B.fragilis

<400> 2654

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atatcttcat	ccgtattttt	tcgtatctcc	agactcgctt	ttgaagcaat	gcgctccaac	120
tcaaccgaga	acgctgaatt	ccagggttaat	ccttcatcca	cactgacttc	ccctgtgacc	180
ggagttgaag	aggctgcatt	tcttatccgg	atatccagat	gcttgcatac	cacaaactct	240
gccgtatcta	caggtagagt	aaccggtaca	cttttaattt	ctgataaaga	tggctctccg	300
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<210> 2655

<211> 903

<212> DNA

<213> B.fragilis

<400> 2655

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aaaagtgaat	cgtatgaggg	attcgggatt	ggaacgctta	caagcggcag	taacttcaat	120
agtcagacct	tatctgttaa	aactaatttc	ctgatcttca	ttcttgaagg	tgaagtggag	180
attattccca	aagaaggcaa	aataaaaagg	gtaatagccc	aggaattctt	tttcatctcg	240
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gagaaagaac	tctttattat	tttgagaaca	agctatagca	aacaggaaat	agtaaattta	540
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cgcgtgaaca	atcgtgagga	attagcacag	gcaatgggaa	tgagtattac	cgatcttgcc	660
agaaagttca	aggtagaatt	tggcgaaatca	gtatattcat	ggttgctgaa	acaaaaaac	720
aagaaaatta	tttatcggtt	ggcgcaaccc	ggagccagtg	taaaagagat	tgtgtatgaa	780
ttcggtttct	cttcagcggc	cagttttcaat	aaatactgca	aaaagaattt	cggttaattcc	840
ccaagagagt	tggtcaggca	gctcaaagac	aagcatattg	ataatcagaa	tcttaaaata	900
taa						903

<210> 2656

<211> 786

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (83), (131), (164), (239), (248)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2656

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<210> 2657

<211> 246

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (144)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2657

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cagagatcta	tgaaccctga	cttntcatgg	ggattcacca	gtttggaccc	ttcgccgttg	180
aacctgttaa	tcaaaaaatc	caagggtttt	cggggtttgc	ccgttccgtt	taaaaaacat	240
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<210> 2658

<211> 834

<212> DNA

<213> B.fragilis

<400> 2658

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<210> 2659

<211> 189

<212> DNA

<213> B.fragilis

<400> 2659

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<210> 2660

<211> 2397

<212> DNA

<213> B.fragilis

<400> 2660

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<210> 2661

<211> 1740

<212> DNA

<213> B.fragilis

<400> 2661

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<210> 2662

<211> 570

<212> DNA

<213> B.fragilis

<400> 2662

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<210> 2663

<211> 1179

<212> DNA

<213> B.fragilis

<400> 2663

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<210> 2664

<211> 273

<212> DNA

<213> B.fragilis

<400> 2664

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<210> 2665

<211> 201

<212> DNA

<213> B.fragilis

<400> 2665

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<210> 2666

<211> 1332

<212> DNA

<213> B.fragilis

<400> 2666

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<210> 2667

<211> 1278

<212> DNA

<213> B.fragilis

<400> 2667

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<210> 2668

<211> 342

<212> DNA

<213> B.fragilis

<400> 2668

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<210> 2669

<211> 915

<212> DNA

<213> B.fragilis

<400> 2669

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<210> 2670

<211> 1290

<212> DNA

<213> B.fragilis

<400> 2670

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<210> 2671

<211> 1284

<212> DNA

<213> B.fragilis

<400> 2671

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<210> 2672

<211> 675

<212> DNA

<213> B.fragilis

<400> 2672

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<210> 2673

<211> 1206

<212> DNA

<213> B.fragilis

<400> 2673

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<210> 2674
 <211> 648
 <212> DNA
 <213> B.fragilis

<400> 2674
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<210> 2675
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 <212> DNA
 <213> B.fragilis

<400> 2675
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 ggaacttgga aaaaagtgat aaatcggctt ttatataact tcgaaccttc tgattcgtcc 180
 tttttcttta ttatttcacc tgtacgggtg gtcgtattgg tccgggaagc tgattatgtt 240
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<210> 2676
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 <212> DNA
 <213> B.fragilis

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<210> 2677
 <211> 384
 <212> DNA
 <213> B.fragilis

<400> 2677
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 <212> DNA
 <213> B.fragilis

<400> 2678
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 aagcaaccga tcttagcatc tattgctgtg ctcaactcca caggcttacc tagtgagggg 240
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 tgctttgagt attggaagca atga 324

<210> 2679
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 <212> DNA
 <213> B.fragilis

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 ctgatgccgg aaggttcaaa atggaaactt ttcattccct ctgaactggc ttacggcgca 540
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<210> 2680
 <211> 1500
 <212> DNA
 <213> B.fragilis

<400> 2680
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<210> 2681

<211> 363

<212> DNA

<213> B.fragilis

<400> 2681

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<210> 2682

<211> 1599

<212> DNA

<213> B.fragilis

<400> 2682

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<210> 2683

<211> 183

<212> DNA

<213> B.fragilis

<400> 2683

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<210> 2684
 <211> 1359
 <212> DNA
 <213> B.fragilis

<400> 2684
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 gcagaaaaaca gagtttagcta caaacaaattc ctactgtct ttactcaaaa catcacaaca 660
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 gaagcacgtg ttattaaata tattgtaaaa ttagtaaaag agcaaggatt tagcgacttc 900
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 agaatttcat ctagagaaat atgggtgcaa gatttaaata ccgaacaagc catctctatt 1140
 gtcaaaaact atatgacaat tgtagaacac gactccttgc tgcccttttac agaagatggt 1200
 atagcatatc ttgtagacat tgttgatgga aatattagac gcttttctaaa aatgtgcttt 1260
 aggctaactc aagaagccgc tctaacattc acctcaccag ataacaagat taacaaagca 1320
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<210> 2685
 <211> 342
 <212> DNA
 <213> B.fragilis

<400> 2685
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 acgttgaagg cagggaacaa caacttgctt tcttctgca tctggtatag gcgatgcacg 180
 ccggtcgttg tctcttccga aactccgcgc acttcagctg ctaccgggtg ccagcgttct 240
 ttgtcttctg ccagcacttt tttcagtata gcattcaatt ctatttcgtc ttcggcatgt 300
 acttctttgt ccaatacagc agcattgttt tctgcttcgt aa 342

<210> 2686
 <211> 237
 <212> DNA
 <213> B.fragilis

<400> 2686
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 acaatgcccg ataacacgat gccggtcact gtagcaagcg taaattttaa gaaatctttc 180
 attgtacata ttgtttttat gccagctctt ttaaagctaa caaagataaa taattga 237

<210> 2687

<211> 990
 <212> DNA
 <213> B.fragilis

<400> 2687

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ggaatctata	ccgatggctt	tttcaatttg	gtagatgata	atatctataa	atcaatgggtt	180
ataaaagata	tagatagtaa	tatcgggcaa	ctcttaaaaa	cggatgctaa	gttttatgcc	240
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aacaagaaaa	agctatctcc	gcttaccat	cacaagaaca	ccaagaacgg	agtaataaaa	540
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ggctacgacc	gccaacaatc	agaatcgttt	gactatcaca	acacgatgaa	aaacgggtct	660
atatcggaac	agactaaact	acaagagcaa	gatattcaat	ccagtgcacg	aaaagcagga	720
atcaatcaag	gtagcaatca	agaaaacttg	ctttctatca	atcttgtaaa	caagagaata	780
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agcacttcat	ctttcaatca	agaaactaat	caaatttcg	gttcattcat	ttcttcgcga	900
gcgcaagata	ttagatcatc	atccaatcat	gaagaccaa	cactaaagtc	taagaagaag	960
aaaaagaaag	aaaggataaa	caaactttag				990

<210> 2688
 <211> 195
 <212> DNA
 <213> B.fragilis

<400> 2688

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<210> 2689
 <211> 2049
 <212> DNA
 <213> B.fragilis

<400> 2689

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tcaactgtgg	atgataaaca	gcaggtaacg	gtggttctga	cggctatgga	agatgtgtac	300
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1058

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cataccaatt	gggattatgg	caaaaacggg	aaaggatatt	ataatgatat	atttgctccg	1980
ggttggacag	tagcttcttt	atgggaacta	ttttcaccgg	gacgtgcaga	acagtttttt	2040
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<210> 2690

<211> 972

<212> DNA

<213> B.fragilis

<400> 2690

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agcttaggct	gtgctgttga	aaactttatgc	atcgttgcca	gctatttttg	ttacactacc	240
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attgaagatc	ccctattcca	tcaaattgag	aaacgacaga	caaaccgcaa	tatctataat	360
ggcaataaaa	tatcaaatgg	aattctacaa	caacttcaat	ccattccgaa	agaaaatggt	420
attcaattct	actttactga	aataaatacg	ccatttgcaa	atacaataac	ccaatacata	480
atgaaaggaa	atgaaattca	aatggctgat	attgctttca	agaatgaatt	gctttcgtgg	540
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gcggcattag	cttttgactt	acgagagaaa	ttacctgtca	ataaggaaca	cccaacatta	900
ataatgagaa	ttggttatgc	aaagcaaata	ccttattctc	cccgtaaaaa	gattgaaaca	960
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<210> 2691

<211> 786

<212> DNA

<213> B.fragilis

<400> 2691

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agtggcatca	gtacctttcg	tgatgcagga	ggattgtggg	atcgttatcc	ggtagaacaa	180
gtagccactc	ccgaaggtta	tgcacgcgac	cccgaactgg	tgaccatttt	ctataatgaa	240
cgccgcaagc	agttgctgga	agtggaaaccg	aatcgcgggc	atgaactgct	ggccgaactg	300
gagaaagatt	tccgggtaac	gattgtgacc	caaaacattg	acaacttgca	cgaacgggcc	360
ggtagcaggc	atattattca	tttgcatgga	gagttgacaa	aggtctgctc	aagccgcgac	420
ccaaacaatc	cgcattacat	taaagaactg	aaacccgaag	aatttgaaagt	gaagataggt	480
gaccttgccg	gagatgggtc	gcaactccgc	ccgtttattg	tctggttcgg	tgagtccgta	540
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acgtccatga	atgtgtatcc	ggcggcgggg	ctgcttaact	acgttccccg	aaacgcggaa	660
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cagaaggggtg catcggaagg agtagctgag ttgcgggaga gacttccttac cacaaaccat 780
gcgtga 786

<210> 2692
<211> 789
<212> DNA
<213> B.fragilis

<400> 2692
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gatgccattg accatgccga gcctttcttt aacggaaaga tagtggtaac tgtgcgcct 720
ccttataaac agaaaattac gataagcgag gagaaacttt cagcttttaa actatggctg 780
aatcattga 789

<210> 2693
<211> 1062
<212> DNA
<213> B.fragilis

<400> 2693
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gtaggcgacg atgcagccgt cctctcctat cctgccgaca agcaagtgtt ggtgactacc 180
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gatgctcagc cggatttctc cggaaaagag tatttgttg aacgacagct caaaccggaa 660
gcccgcgaag acattattga gaaactgtcc gccgcaaaca tcgttccgac ttctatgatg 720
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catattacaa agcccgaatt aggtgcgca ctgatcacac gcgatggta ggaattcgag 1020
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<210> 2694
<211> 1323
<212> DNA
<213> B.fragilis

<400> 2694
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gttcataatt ggtacaaaatt taccgcaggg ttctcatata aatttgtcga agcaatatta 180
gaaggagaaa aaaactccca gaatattgta tttgagcctt ttgcaggatg tgggtactact 240

ttagtgtcat	cacaaaaatg	tggggtaaa	gccattggaa	atgaaggaca	agaatttatg	300
ttagatataa	taaaggctaa	attatatattg	aacatagata	agacagaatg	tattaactct	360
ctaaactaca	ttgattcata	catcaaagaa	catctaacta	atttttagtat	ggaagaggta	420
catccactgc	ttagtactct	gtatgacaat	gaaacactca	aagtattata	tttaacccgt	480
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cgtatggcca	acagcggaca	tgcatttgca	agatttcaat	caatagtatt	acagatgtta	660
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gcttacagtg	tggggtttaa	taaatatcat	atttataaaa	taaggactag	aggtacaaaa	1260
tggaagagtc	tcaaatatag	acataatatt	gaattatcag	aaaacgtact	tgtattggaa	1320
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<210> 2695

<211> 504

<212> DNA

<213> B.fragilis

<400> 2695

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cctgtagaat	atgggatgcc	ttctgctaaa	tatcgggtga	agggcaaagt	gattgatg	180
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<210> 2696

<211> 339

<212> DNA

<213> B.fragilis

<400> 2696

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aatgaaaaga	tactcgataa	tcaggattta	gcctttcttc	tgaaagtatc	tttccgaact	180
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tatcgtgctg	gtgatatccg	gtctttcggt	cgtgaacgtg	ctgatttcca	agcctacaaa	300
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<210> 2697

<211> 699

<212> DNA

<213> B.fragilis

<400> 2697

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gataattata	acatggagat	acatttgcg	aatctttag	ccataaaaaa	aatgttatct	420
accattgata	atgcagatgt	gtggtgcgca	tggggagcaa	ccataagtga	tcccaaacgg	480
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ttattcaatg	ggaattatca	ttttaagca	tacggagcta	ccactaaagg	ttatcccaag	600
caccctcttt	taataggaaa	aggagccaaa	ttgaaaactc	taaatgaagt	ggaactaaaa	660
gaattatcag	atagaattac	taatataatc	aagaataaa			699

<210> 2698

<211> 543

<212> DNA

<213> B.fragilis

<400> 2698

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ctagttgata	gtacatatcc	aaatctaaat	aaatttatta	attatttagg	taacaatcct	180
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attgattttta	attgcaaatt	tcatatagac	ttatttgaac	ctacaaaaaa	catttgttta	480
gtatccctaa	aatccgcaac	tatcatccaa	tacacgatta	agggtagatt	tatgagtcgt	540
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<210> 2699

<211> 1842

<212> DNA

<213> B.fragilis

<400> 2699

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<211> 3537

<212> DNA

<213> B.fragilis

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<211> 1971

<212> DNA

<213> B.fragilis

<400> 2701

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<211> 288

<212> DNA

<213> B.fragilis

<400> 2702

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<211> 201

<212> DNA

<213> B.fragilis

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<210> 2704

<211> 189

<212> DNA

<213> B.fragilis

<400> 2704

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<211> 1128

<212> DNA

<213> B.fragilis

<400> 2705

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<211> 1332

<212> DNA

<213> B.fragilis

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[illegible]

<213> B.fragilis

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<210> 2708

<211> 258

<212> DNA

<213> B.fragilis

<400> 2708

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aggtataagg	atgaagatac	cggttcagac	ggtgtaaact	cactttcgaa	acttgagcta	180
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<210> 2709

<211> 303

<212> DNA

<213> B.fragilis

<400> 2709

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<210> 2710
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 <212> DNA
 <213> B.fragilis

<400> 2710

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<210> 2711
 <211> 741
 <212> DNA
 <213> B.fragilis

<400> 2711

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 <211> 1233

<212> DNA

<213> B.fragilis

<400> 2712

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<210> 2713

<211> 1308

<212> DNA

<213> B.fragilis

<400> 2713

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ctgaacatca	aagatgccaa	gtatatctat	acaagtggta	gcaatactcg	ctcttctctc	180
gcggaatatc	ggcagataaa	aaaagacggt	agggacatgg	agttatcggt	gattgacagc	240
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<210> 2714

<211> 264

<212> DNA

<213> B.fragilis

<400> 2714

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<210> 2715

<211> 186

<212> DNA

<213> B.fragilis

<400> 2715

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ggggagaata	agggatttgc	tttgcataac	caattctcat	tattaatggt	gggtgttcct	180
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<210> 2716

<211> 1902

<212> DNA

<213> B.fragilis

<400> 2716

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<211> 858
 <212> DNA
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 <213> B.fragilis

<400> 2718

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1923

<210> 2719

<211> 2067

<212> DNA

<213> B.fragilis

<400> 2719

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<211> 204

<212> DNA

<213> B.fragilis

<400> 2720

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tatattaata	gttttttgct	gcatggggtg	tcagcgaaat	acattgcgag	gtcctattcc	180
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<210> 2721

<211> 195

<212> DNA

<213> B.fragilis

<400> 2721

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<210> 2722

<211> 189

<212> DNA

<213> B.fragilis

<400> 2722

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<210> 2723

<211> 345

<212> DNA

<213> B.fragilis

<400> 2723

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<210> 2724

<211> 2049

<212> DNA

<213> B.fragilis

<400> 2724

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gcatactact	tgtatccggg	accgatacgg	caaattggagc	ttttgtctcc	ggaccgttca	1980
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<210> 2725

<211> 966

<212> DNA

<213> B.fragilis

<400> 2725

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<211> 1050

<212> DNA

<213> B.fragilis

<400> 2726

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taccatcgtt	ttagagattt	ttcctctcta	tatttaccta	ttgataataa	ttactcaaat	480
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atagaagagt acaagcgaaa caaagaatat atcagcctag ttaggacttc cgagggtttt 960
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<210> 2727
<211> 1074
<212> DNA
<213> B.fragilis

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ctgtatggga cagatgcttt gtacgatcgt atagatacga tttatgcaga gaaaggcaag 180
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ctgataaacg gtcattgtaga gtatcctgtt tttttggata aaggaaatca aattacgac 300
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gagaaggccg aaacattttat ccgccaacac aactcttcat tggcaagtgt ttatctgctg 480
gataaatact ttgtacagac tccgcaacca gactatatca aaataaaaaga aataactgag 540
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<210> 2728
<211> 297
<212> DNA
<213> B.fragilis

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ggtttcaatc cgatttccaa agctttctgc agcaciaaagc gcgtttgcgg catcgggcct 180
tcaaaaagcat caaccaacag aatgcatccg tcggccatgt tgagcacacg ctctacttgc 240
ccaccgaagt cgctgtgtcc cggagtatca ataataattaa tcttagttcc gttgtaa 297

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<210> 2729
<211> 318
<212> DNA
<213> B.fragilis

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<400> 2729
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caagaaacaa tacaacctatg taagaagcac catcttcaca tcatagggaa taaaacttgt 180
gacttggaat tggaggatgt atatactctc tgtaaaatca tacaggctgt tgttgagaa 240
ccactctctt gggatattat tgaaaggggtg ctaagtgaaa aagatagcaa tcttgtggca 300
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<210> 2730
<211> 558
<212> DNA
<213> B.fragilis

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<400> 2730

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<210> 2731

<211> 630

<212> DNA

<213> B.fragilis

<400> 2731

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ttagcttatg	aagattctat	aaaagaaagc	agtcacgaa	ttgagcggga	aattagaaac	180
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gaattaaact	gtaatacttg	tgtaaataag	caaatagaat	tattgaatct	gtatgttgac	360
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aatagcgtat	atgttcctca	aatagatgaa	agtaacgtaa	caaaaacata	ttttcaccgg	600
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<210> 2732

<211> 876

<212> DNA

<213> B.fragilis

<400> 2732

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<210> 2733

<211> 1515

<212> DNA

<213> B.fragilis

<400> 2733

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tgtgttggat	attttggaac	acctcaaaat	tatatctcca	agtccactaa	ttatctaaat	300
ggagagaaaa	atggagtcga	aaagaattat	aatctaggaa	gtagcgggca	ttatttgata	360
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aatttggatc	aaaatgggca	aatagaatat	gaaggagtgc	ttcaagtgc	acccgggaac	540
tatggtaatg	taacaacgcc	aattcagtat	accagatata	gtgaggctgg	tgctctaata	600
gaaaaactaa	atgataatat	tatctcattc	tatgcggaag	atggcaaaac	tatcacacaa	660
aaagagaatc	ttagtaccga	tgtaatagag	tattatgata	atgggtacttt	gactaaatca	720
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caacaatatg	caactattag	ttctaaaaatg	agaaagtggg	ataatatgaa	aattactcct	1440
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<210> 2734

<211> 1401

<212> DNA

<213> B.fragilis

<400> 2734

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cttcaacaag	tattagggca	ttacgaagg	gattcgttga	aacataaagc	tgcttgcctt	180
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tgttatatac	gacaagaacc	cgagccggac	ttaacgtgta	taacagccga	ctatttgata	300
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tttagagagt	tttgtcggaa	tatatgtcct	tatcggttaa	aacaggagcc	tttggaccga	420
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<210> 2735

<211> 360

<212> DNA

<213> *B.fragilis*

<400> 2735

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tttagctatt	gcctaccagt	agaatacaaa	atcaaatacct	catttttgga	taaggaggca	180
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gtcgcattgc	gtaacatcaa	taaggagatt	gaaaaaacga	ccaacacctt	aattaaacaa	300
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<210> 2736

<211> 1113

<212> DNA

<213> *B.fragilis*

<400> 2736

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gaaacaattg	caacggatgc	acaacagaca	ttatctttta	atcacgaacc	tttatccatt	180
gacccaatcg	gcataggcga	tattattgtc	accgatacat	ttctaataat	agctctaaat	240
aaagaggaga	atatgctgca	tgtatacaac	cttccccatc	tgcaattttct	tggaagtttt	300
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gaagttttacg	attacaaaaa	cgacagcatc	ctgcgcagtt	tctacgcctc	caattttcccc	660
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gtaatagaag	gcactcccaa	accttattat	accaaagtac	actgcaataa	tgcatatata	900
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gactggaaag	gcaattatct	atgtaaagcc	catctggaca	aatgggtttc	ctctttcagc	1020
atagacgaaa	gaaaccaaac	catgtatgct	gtaactgcag	atgacatgct	tgttcgatac	1080
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<210> 2737

<211> 1068

<212> DNA

<213> *B.fragilis*

<400> 2737

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cagtatgcac	tcaatatccg	ccatcgttgg	aagataatag	ttattttatgt	tgccgttatc	300
ttgttattcc	tgttgttgaa	ctatagcctg	ctgattgctg	ctaagctatt	ggcaggcatt	360
gacaacctat	ttactttctc	caatggaggc	tggcgatatcc	tgatcgtggt	atggctcgta	420
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caacaggagg	ccgcaaaact	gcaaacagag	aacgacactg	cacgttatgc	ggctttacaa	540
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atcaatcata	attctattac	tctcagcaag	tagatgaaga	tagatattcg	gttagaggaa	900
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gggctgaaga acctgtccaa tcgttgccag ttgatgctcg gcaaagagat aattgtccac 1020
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<210> 2738
<211> 1143
<212> DNA
<213> B.fragilis

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catttttaaag ataagaagat ttcagatgaa gtatttttga ctggaaatat agctggtaaa 480
ctatcaaaaa ataaaactgg tgatattgtc tgttgatttg aaggaaaaga ggaacagaaa 540
atagtcacatg aatgcaaatt tgacaaaagt atcagacttg gagatattga atctaaagat 600
atttttaccc gaaaaactga tacagcatgg agccaattgt tagaggctca ggtaaataga 660
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<210> 2739
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<212> DNA
<213> B.fragilis

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gggaaacttc agtcaaagag ttttaattgtt cctattattt gtatcgggaa catcgagtg 180
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<210> 2740
<211> 3264

<212> DNA

<213> B.fragilis

<400> 2740

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gatgcagcct	ctgcttctat	ctatggtgcc	cgtgcgcgat	tcggtgtaat	cctcgttaca	780
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 <212> DNA
 <213> B.fragilis

<400> 2742

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<211> 1077

<212> DNA

<213> B.fragilis

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caattaaata	atgataattt	taactgtgct	aagttgaaaa	ctttaaagga	cttgacagaa	960
gtcttgaaaa	aagaagcaaa	tgaatccaac	gttagaattg	cgaatgaaaa	atataaaaaa	1020
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<210> 2744

<211> 1179

<212> DNA

<213> B.fragilis

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<211> 1491
<212> DNA
<213> B.fragilis

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<212> DNA
<213> B.fragilis

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<212> DNA
<213> B.fragilis

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 <211> 195
 <212> DNA
 <213> B.fragilis

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 agaggtgggg agtga 195

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 <211> 315
 <212> DNA
 <213> B.fragilis

<400> 2752
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 <211> 1461
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<400> 2753
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 <212> DNA
 <213> B.fragilis

<400> 2754

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<400> 2755

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aaacttgaac	gactgaaaac	gcaaaagcaa	tcattgttta	cagccgagtt	tacagagaag	540
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<210> 2756
 <211> 231
 <212> DNA
 <213> B.fragilis

<400> 2756

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ttcctcccgt	tgaccattgc	agacaaaagc	ttgtacactg	acagaaaagc	aggaaggaga	180
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<210> 2757
 <211> 1545
 <212> DNA

<213> B.fragilis

<400> 2757

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<210> 2758

<211> 1215

<212> DNA

<213> B.fragilis

<400> 2758

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<210> 2759

<211> 1140
 <212> DNA
 <213> B.fragilis

<400> 2759

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tacggactgg	agcaataact	gggtgggtat	tatcaggtgt	ggttaagctt	tgccaactat	1080
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<210> 2760
 <211> 669
 <212> DNA
 <213> B.fragilis

<400> 2760

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aagccatcgg	gtgacactgc	ctctgccgaa	acggaagaag	tgacagagga	aatgactacc	180
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cggttaatca	ttgtatggaa	tccttgggtg	gcgtccatca	gtatcgacaa	tcaggcatta	360
ccctatctga	aagaaattat	caatgcagtc	aatatgaact	cattagtgc	tactgtctat	420
gcgctggacg	aggatgaaaa	aacatattgg	atccacagta	aatgccatat	gctcttcgct	480
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cacaatacta	ttaaagaaaa	cctgaaacaa	ttgggtaacg	gaatgccgga	tatggaaaag	600
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ggggaataa						669

<210> 2761
 <211> 264
 <212> DNA
 <213> B.fragilis

<400> 2761

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aaggagcaag	aaaagaatga	catacatata	gtaacctcta	ataattatgc	ttatgaagta	180
gaaaaaacga	atcctttaca	aaccttattc	cggaacaaaa	ataaaatccg	gaatcctaaa	240
acaaactatc	aaattaatgt	ttaa				264

<210> 2762
 <211> 267
 <212> DNA

<213> B.fragilis

<400> 2762

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tgggttcaga	acgtcgtgag	acagttcggg	ctctatctat	cgtgggcgta	tgaaatttgc	180
gtggctctga	cactagtacg	agaggaccgt	gttggactga	cctctggttt	accggttgtg	240
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<210> 2763

<211> 690

<212> DNA

<213> B.fragilis

<400> 2763

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ctctattcag	agttatcaac	ttgtggcgtg	atggacggca	aacggaaaga	gaacctaaaa	660
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<210> 2764

<211> 333

<212> DNA

<213> B.fragilis

<400> 2764

accattaaaa	gtaaaagtat	ggaggtagta	accattgaaa	aaagaacatt	cttgtatatc	60
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gaagtgcgaa	actggctgga	tagtcaggaa	gtgtgcctgt	tgtagggttt	tagtaaacga	180
acgctgcaat	attatcgaa	tagtgggcga	ctggcttatt	ctcaaatagg	aagcaagatt	240
tattataagt	cttctgatgt	ggaaagaatt	attgcggata	gtgaaacaca	aatcaatca	300
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<210> 2765

<211> 1041

<212> DNA

<213> B.fragilis

<400> 2765

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gactattaca	tggatttatg	caaacaaggt	aagattctga	atgtggatgg	tacaaaattg	180
tcctctgcaa	ctctggctac	ctataaatcc	acaagaaata	ttctaaagaa	atatgcagca	240
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<210> 2766

<211> 183

<212> DNA

<213> B.fragilis

<400> 2766

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 ggaggaaaag ggatgtttcg aggaagaata tcgcggaagg aattgggggtt gggagagaga 180
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<210> 2767

<211> 315

<212> DNA

<213> B.fragilis

<400> 2767

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 gattgtaatt attctaagga tgtattcctt gaagggtgcg accatatcat aaatgtaacg 240
 gttcctggca aaaaagggaat ttgtgatggg actaatggta catgcaatag ctggccgtgt 300
 agagaggttaa aataa 315

<210> 2768

<211> 216

<212> DNA

<213> B.fragilis

<400> 2768

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 gttatctgtg gtgaaacagg ttcattgcta ttccgtttca attattccca ccccgattg 180
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<210> 2769

<211> 1113

<212> DNA

<213> B.fragilis

<400> 2769

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<210> 2770

<211> 336

<212> DNA

<213> B.fragilis

<400> 2770

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gcttct	tttct	gtgcat	cacg	gaactt	gaat	acattg	agca	gctttt	ctac	ttcggt	ctta	300
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<210> 2771

<211> 225

<212> DNA

<213> B.fragilis

<400> 2771

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gatgttc	cctc	tgcatt	gagta	tgaagg	ctta	atgagt	gccg	attcaaa	agg	catttat	cta	180
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<210> 2772

<211> 207

<212> DNA

<213> B.fragilis

<400> 2772

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agagata	aaac	tgaaaa	acag	gtgggg	gaatt	gacggg	aggtt	ggacgg	gaaa	tcagac	gagg	180
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<210> 2773

<211> 1614

<212> DNA

<213> B.fragilis

<400> 2773

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<210> 2774

<211> 441

<212> DNA

<213> B.fragilis

<400> 2774

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<210> 2775

<211> 2079

<212> DNA

<213> B.fragilis

<400> 2775

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<210> 2776

<211> 849

<212> DNA

<213> B.fragilis

<400> 2776

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attgagcaag	atgcggatat	ggtttgcttt	ctccatcgac	cggaaatatta	caaaatatac	720
caagacgaca	aaggaaatga	cttacacgga	atggcagaaa	ttatagtctc	caaaaatcgt	780
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<210> 2777

<211> 783

<212> DNA

<213> B.fragilis

<400> 2777

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<210> 2778
 <211> 1143
 <212> DNA
 <213> B.fragilis

<400> 2778
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 gataccacta cgtcgatggc cgcttcaact gctgcattct atcggcaggt tgccgtggga 360
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<210> 2779
 <211> 3045
 <212> DNA
 <213> B.fragilis

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 gatgtacaag ataaattgcc tgccggggct ggaacttcta tcgtaaatga tgactttgga 420
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<210> 2780

<211> 369

<212> DNA

<213> B.fragilis

<400> 2780

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<210> 2781

<211> 642

<212> DNA

<213> B.fragilis

<400> 2781

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acactacaag	gcagagccat	ctggtatggc	agccgccccg	atctctggaa	aggagaaagc	180
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<210> 2782
 <211> 1191
 <212> DNA
 <213> B.fragilis

<400> 2782
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<210> 2783
 <211> 498
 <212> DNA
 <213> B.fragilis

<400> 2783
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 ataagaagta aatataaact atatttgcaa ataataacct ttaataaaaa tagtatgaaa 180
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 aatcataagc aaccgggtttt aaccaatgta cagttacaaa atctggaagc aatagccgcc 300
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 gaacatgata atgaaccaca ttatgagtgat aatgggttcga gtggacaagc aggaatgaca 420
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 atatgcatag aacattaa 498

<210> 2784
 <211> 1206
 <212> DNA
 <213> B.fragilis

<400> 2784
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<210> 2785

<211> 258

<212> DNA

<213> B.fragilis

<400> 2785

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gaatttatca	ggtgcatagc	aacaattggc	aattcaaaag	ataactccaa	catctttcgg	180
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<210> 2786

<211> 1020

<212> DNA

<213> B.fragilis

<400> 2786

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ccccgcaca	agaatccgtt	attcagcctc	atcccaagaa	aagcagatag	cgatgcttat	180
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<210> 2787

<211> 288

<212> DNA

<213> B.fragilis

<400> 2787

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aatgttactg	ccatccggat	cttactacta	acgttctact	atctttattg	taaaatccaa	180
aaagtatcct	atttaacatt	ttggattttc	tcaactccaa	cattcctaaa	tataaacact	240
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<210> 2788
 <211> 921
 <212> DNA
 <213> B.fragilis

<400> 2788
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 aagtttttcc ccgcagattt agttcaagaa gtcttggttt ggcttggtgt gatggcaacc 180
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 ggggatgcta gagctcaaat tgccaatact ctctgctcga atgccactta ttcttgatg 360
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 ggggctgagc tatatgatca aagtaaggaa atagagcagc aaatacgctt tatgggaatg 720
 aaggctagaa cgagttattt tatggaaaag gtagaatata aagataaaca gcggggagat 780
 gatattagta attacataat atctgagatt aaccgggttg ttcattacaa agaggcttat 840
 gagagtgcct tagatcgagg ggcttttagct cttgattggg gctcggcaat ggtcgataac 900
 aacagaatga tgaaagaata a 921

<210> 2789
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 <213> B.fragilis

<400> 2789
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 agtgtcaatc ctccaatgga aaataaatca tggaaagatt acatgataga tgatttgaag 180
 cttctatttg attgtgaggc aatctatctc attgataatt ggcagtcttc taaggagca 240
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<210> 2790
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 <212> DNA
 <213> B.fragilis

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 caacaaatac agtcccccaa tcacctgaat gacaaacaac gggcagaata ctgctttcaa 240
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 gccaatagtt tcttctataa agatcagccg gattctattt tacattctgc ccgggagctt 420
 cgggacaaaa caagtatat gactccacc caacaaagat attactataa catacaaaaa 480
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 gaatggtttg ctccctccaa agaatatcat tatctaactt acaccatagc cgaagacatc 720
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<210> 2791

<211> 963

<212> DNA

<213> B.fragilis

<400> 2791

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tacttgacag	acctggagaa	gttactaagt	tttctatcag	ccgaaggcgt	ggagatactt	180
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gcccgttcac	aggcacgtat	catttcagggt	attaaatcct	ttttccactt	tttgattata	300
gctgattata	tagaagccga	tcccagcgaa	ttgctggaag	gtcccaaaat	cggattttaa	360
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aagaacgaag	ggcaacgaaa	tcgggcaatc	ctggaaacgc	tttacagctg	tggtattacgg	480
gtttccgagt	taaccggact	aaaactatca	gacttgtact	ttgacgaagg	tttcattaaa	540
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taa						963

<210> 2792

<211> 1254

<212> DNA

<213> B.fragilis

<400> 2792

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<210> 2793

<211> 525

<212> DNA

<213> B.fragilis

<400> 2793

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tgggtagggtg	cattggtagt	ggaagggtgct	atgcgcgctg	atgtacaagg	ggaattcgaa	180
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gacatcgcaa	agcatatttt	agctgaagaa	gaagagcatg	aacaagacct	acaggattat	480
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<210> 2794

<211> 612

<212> DNA

<213> B.fragilis

<400> 2794

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gaaaaaatta	aatcactccg	tgagaacaaa	ggaatctcaa	tagaagaact	tgccgaacgc	120
tcaggattgg	ccattgaaca	aatagaacgt	atcgaaaaca	atattgactt	gccttcattg	180
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<210> 2795

<211> 270

<212> DNA

<213> B.fragilis

<400> 2795

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tgctcaaaga	cttctttgat	ggtccagaaa	gaagagaaag	cgaatacgcc	caataaagac	180
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<210> 2796

<211> 1017

<212> DNA

<213> B.fragilis

<400> 2796

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<210> 2797

<211> 1683

<212> DNA

<213> B.fragilis

<400> 2797

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<210> 2798

<211> 252

<212> DNA

<213> B.fragilis

<400> 2798

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ttttatcttt	ctcccttgct	tggatataaa	atttcattaa	ttttgcagca	aaacgaatta	180
aattataacc	ttttaccggg	aaaatacatt	caacattatg	gatacaagca	aatcgtagg	240
agaaaaaatt	aa					252

<210> 2799

<211> 1047

<212> DNA

<213> B.fragilis

<400> 2799

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gacagtaagc	agagtcagga	cttaattgtc	aagacagcac	aagcagtttc	ggcctctggg	120
atcaagacaa	cggagttccc	gtttatcgca	caaccttttc	gtacctctga	gctatcgttt	180
cgtgtcggag	gccctattga	tcgtttggat	gtatatgccg	gtaaccatta	caaacaaggc	240
agtattattg	ctgaaataga	cccgcgtgat	ttccatattc	gcaaagaacg	ggctgaagcc	300
atctatcacc	aagctaaagc	tgaatttgaa	cggatagaga	agctgtatga	gaagaataat	360
gtttcggcga	gtacatatga	aaagactaag	gcggtattata	ctactgccaa	aactgctttc	420
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ggagaagttt	atatagaaaa	ataccaggat	gtgaagccag	ctcagcctgt	tatatccttt	540
attgacataa	atcggttgaa	gatagagatt	tatgttactc	agaatattgc	gtttgcctca	600
cacccacacg	atagtgtccg	gatctatttt	gatgcccgag	ccgataagta	ttataaggca	660
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gttttaccta	ataaagaagg	gaaattattg	gcggttatgt	cgggaaaagc	aatccttgat	780
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acagtgaaaa	aaggaaatct	gcttcccggg	ggctatgtta	ccataaccga	aggattgagg	960
gccagtgaaa	cggtagctac	gagcggactt	cgttttttat	cggatgggtat	gaaagtggaa	1020
atctctacta	agacaaaactc	attatga				1047

<210> 2800

<211> 288

<212> DNA

<213> B.fragilis

<400> 2800

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cagtcgtttc	ttctcaataa	ctgtcttgcg	agagcgtggt	cctacaaccc	cacacatgcc	180
gtaacatggg	tggtttgggc	taatccccgt	tcgctcgcca	ctactagggg	aatcattatt	240
tattttcttt	tcctgcagggt	actaagatgt	ttcagttccc	tgcgttag		288

<210> 2801

<211> 291

<212> DNA

<213> B.fragilis

<400> 2801

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agaaataaac	tctatcagta	tgcacctacg	cagatgtata	tcagttgcgt	attgggctcc	180
gatggagcca	ccactaccca	acaaagagag	ggggcaatag	ccttgcttta	ctcgactccc	240
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<210> 2802

<211> 432

<212> DNA

<213> B.fragilis

<400> 2802

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aaatatcccg	atgtggaact	gggatatttc	cagtcgaatg	ttgaagggga	aatcatagat	180
attattcagc	aaaccggatt	cgatgtggat	gggatcatat	tgaacgcagg	agcttatata	240
cacacttcca	ttgctttgca	ggacgctatc	cgctccgtaa	cctctcctgt	aattgaagtt	300
catatatcca	atgttcatgc	ccgtgagcag	ttccgccatg	tatctatgat	tgcttgtgct	360
tgtaaagggtg	ttatttgtgg	atttggattg	aactcatatc	gtctggcact	cgaagcttta	420
ttagataaat	ag					432

<210> 2803

<211> 354

<212> DNA

<213> B.fragilis

<400> 2803

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cagaaagaac	tcagtgagat	ttttctgttg	cagactaaag	ctatgcccg	tgtactggta	120
tcagtaagt	ctgtacgtat	cagtcgccg	atgagtatag	ctcgtgtata	tcttagtata	180
ttcccttctg	aaaagagtga	agaaatggta	aagaatatca	ataataatat	gaagtccatt	240
cgtttcgaac	tcgggtactcg	tgttcgtcat	cagttacgta	tcattcctga	attgaagttt	300
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<210> 2804

<211> 1764

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (1492)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2804

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tccgaacctt	gggaggaatc	tttcggaaat	catcggg	tactgcaa	agagaagccg	180
gcacaaatcg	cgaacctcga	cttccaatgg	cggcgctccg	acaaagatgc	aggacacaga	240
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gtgaacgcag	aacactgccg	tttgcagttc	ggtccgggtg	aacaaaaagg	cacttactac	360
ttctactacc	tcccctacca	agtgcaaaag	ggatacggat	tctacagtgg	cggatacctt	420
ccgaaagaaa	acgaaccgga	tgacgcctgg	caggctcaag	gcgggtcaac	cctgaaaagc	480
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gaagttgccg	caacggccccg	ggagaaagag	aactacatca	accggcacia	agcctccctc	600
tacctctttg	ccgaagatcg	caggttcccc	atccggatgc	gcagcaacct	ccctaccaa	660
tggtgtggcag	acaaacaggg	aaaactgttt	cgggggagaag	cagcccccaa	tgaatactat	720
actttccaga	tcgggctttg	ggcagccgtg	aaccaagcag	acaagattgc	ttaccgggct	780
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gtacaggctc	tctgtgttcg	aatagatata	cccgcagggc	agaagggaag	catctataca	960
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cagatacaag	tgaagacgt	ccgtctggta	ttgccgggtca	ggaatgaaat	angaacttat	1500
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gcccccgaga	aaaccgtgaa	cacttttcgga	gtgtccatcc	ccaacttcca	aagaacaaca	1620
atgggctgtg	gcccgtccac	aattttctgg	atcgggaaacc	agcatgcagg	tattcactgg	1680
caaatcaggg	gaagcacata	cagccggtcc	gctattgaat	ctgcaccgtc	cggcctatcc	1740
ggaaagctgg	ttcaacgggg	gtaa				1764

<210> 2805

<211> 1377

<212> DNA

<213> B.fragilis

<400> 2805

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tttactaacg	gtcaggagcg	gaaatataat	atggcagaac	agtcgctaaa	agaaaaaaca	120
gccaaaggat	tattctgggg	tggattcagc	aatggcatcc	agcaattact	gaacctgctg	180
ttcggaatta	tcatcaccgg	tatgctggat	tgcagagact	acggtatgat	tggatgctg	240
gctatattta	ccgcgtagc	caactctata	caagagagcg	gatttacggc	cgctctggcc	300
aataaacaga	cgttcogtca	tgaagactac	aatgcgggtgt	tctggttcag	ttttctaattg	360
ggtgcatcgc	tttacctgct	gctctttttt	tgtgccccgt	ttatcgcagc	attctataag	420
actccacagc	ttattcctct	atcccgttcc	cttttctctg	gttttctgat	ttcaagttgc	480
ggaactgccc	ataatgcggg	attattttaa	aaactaatgg	tgaagaaaa	agcgaaagca	540
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ctttgcatct	ggggagcatt	tgtccccatt	acttatatgt	actccaatct	cctgatcagt	1140
aaaggaaagt	cgaatctttt	tatgtggaat	accattgcac	agagcctggg	tcaactcaca	1200
atgcttcttt	gtactatctc	acaaggcata	ctcgtcatgg	ccgtgattta	tacggttatc	1260
aacatcggtt	ggctgctgat	atggcattat	ttcgtaaaca	agcagattca	catcacctta	1320
tgggaagtca	tgaagatat	cactccgtac	ctactgatct	ccggaggagt	catatga	1377

<210> 2806

<211> 1320

<212> DNA

<213> B.fragilis

<400> 2806

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gttttaataa	tcaatacttc	cgaacgtttg	ggcggagcgg	ccgtcgcagc	aagccgcttg	120
atggaatcgt	tgaaaaacaa	cggatatcaa	gccaaaatgt	tgggtgcgca	caagcaaacc	180
gaccagatca	gcgtagtagg	tctgcaacgt	aactgggtggc	aagtatggag	gtttgtgtgg	240
gaacgcattg	tcatctggaa	agccaaccgc	tttaagaaga	acaatctttt	cgcagtcgat	300
atagccaata	caggcacaga	cattacaagc	ctgccggagt	ttcagcaggc	agatgtcatc	360
cacctgcatt	gggtgaatca	gggaatgttg	tactgaacg	atatccggaa	gattctgaaa	420
tccggtaaac	cggtagtggt	gaccatgcac	gatatgtggc	cctgtacagg	tatctgccat	480
cacgcccgtg	agtgtacca	ctaccatcag	gagtgtaac	actgtccata	cctgtatgga	540
gggggaagta	agaaagatct	gtccaaccgt	atcttccgta	aaaaacaaca	actctacaaa	600
gaagcaccca	ttaccttcat	cacttgtagc	caatggctga	agggacaagc	cgaaaagagt	660
gctttgctga	caggagaaac	agtaatcagt	atacctaacc	ccattaacac	caatctatct	720
aaaccagaa	acaagaaaga	ggcacgcagc	aaatgccatt	taccccaaaa	cggaaaactg	780
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ccctcactgg	aagagaacct	gccaataacc	atcatggaag	ctatggcatg	cggagtgcct	1080
tgtatcggct	tcaatgtcgg	cggcatcccg	gaaatgatag	accatctgca	caacgggtat	1140
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cgggattatc	cgtctctctc	ggaacaggcc	aaccgaaaag	taatcgccaa	ctactcggaa	1260
ggcattattg	ccaaaagata	cattgatgtc	tacaataaaa	taacaggaag	atatgcatag	1320

<210> 2807

<211> 663

<212> DNA

<213> B.fragilis

<400> 2807

caaccgttat	ttataagaga	cgagatgaaa	gagaccgatc	ttttagacga	atatatcttg	60
cagcatatcg	atgaggaagg	tgaataacct	aaatctcttt	atcgggatac	gcatgttaaa	120
ctcctgcgtc	ctcgtatggc	ttccgggtcat	ctgcaggggac	gtatgttgaa	gatgtttgtt	180
cgtatgatac	ggcctcgcca	aatattggaa	atagggactt	atagtggcta	ttccgctctt	240
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caagaagact	ttaccgcgtc	ctggctcgaa	aactcagctt	atgctgataa	aattaaattt	360
tatattgggg	atgctcttcg	gttaataacct	gcattgggca	ttacgtttga	tcttgctttt	420
gtggatggtg	acaaacgtaa	gtatattgaa	tattatgaaa	tgactcttgc	acatctttct	480
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catagcaatg	atcaccagac	gatcgggaatc	aaggctttca	atgagttggt	ggcacatgat	600
gaacgggtag	aaaaagtaat	tctgccttta	cgtgacgggt	tgactataat	tcgtaaaaag	660
tag						663

<210> 2808

<211> 252

<212> DNA

<213> B.fragilis

<400> 2808

caagttctat	tagatatctc	tgtttcatat	ctttttatca	tcaagtcgga	taggtttatg	60
tggtggaact	acatgaaagt	tttaatgttt	aacactttga	atccgaacaa	tctttttaga	120
caaagaccat	cgggattcaa	cctacccatg	attattttat	atattaagtt	ggattctcaa	180
aacgcaaaaa	ttgaccagaa	aactttaata	gggcatctcc	cgtctttcca	ttacgatttt	240
tggagactat	aa					252

<210> 2809

<211> 306

<212> DNA

<213> B.fragilis

<400> 2809

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acagtttcaa	gaatgcgctc	ttccaataaa	gcgccttcc	gcgtttcttc	tccaaatccg	120
gccgaaagaa	ttatgaaagc	ccgcgtctgc	ttctctcgcg	ccagtgtttc	caccacctcc	180
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tcggcaaagg	aaggcactcc	ctgcacttct	gtttcttttg	gattgacagc	ccgaagttct	300
ccctga						306

<210> 2810

<211> 990

<212> DNA

<213> B.fragilis

<400> 2810

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gtccgcaaat	tgattgcagg	tgagtcttct	tcggaagaaa	tggaagagct	ggcacattgg	120

aatgttgtgg	agacgaaaat	gaaaaaaaca	ttcgaatgcgg	caaaaaatat	agtggaaaat	180
ggtgctattg	aaagaaggat	ctgggataag	attgactcca	gatgccaggc	tcctgttgag	240
cgtagtcaga	aacttcaact	cagatattgg	aggggtgcac	tagctgcatg	tattacggct	300
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gacctgcct	ctaaagtcac	cgaaaagatt	tgtattaata	tgaatttgaa	atttaaaaaa	960
gaaacacaga	aatcattat	ttataaataa				990

<210> 2811

<211> 273

<212> DNA

<213> B.fragilis

<400> 2811

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tttgaatta	ataagattaa	agaaaaaagg	aaagagctaa	aagtgtctca	gcgaggtatg	120
gctgagatac	tggattgttc	tgctggcttc	ataggacaag	tcgaaagtga	aaactccgat	180
accaaataata	gtgtttatca	actttatctc	attgccaaag	atttcaactg	ctcaccagca	240
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<210> 2812

<211> 2499

<212> DNA

<213> B.fragilis

<400> 2812

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gccggagccg	gacaagaagc	caaagaatat	tatgagagaa	caggtgaacg	taccgcgtgg	180
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gccggacata	tctggaaatt	tattacttta	gcctatatcc	cacctacgat	agcagggtata	480
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acacagacag	atgaactaat	cctgcaagac	ccatcactgg	attatcgtgt	actgaacttt	1740
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gcaaccattg	atggcaagcc	cgccgatatt	gcccgtgcag	actacatttt	acgtgctatg	2340
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acagaaggta	ttgcatacgg	agcgatggcg	ttattgctgg	taggagtaat	aatcctgata	2460
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<210> 2813

<211> 489

<212> DNA

<213> B. fragilis

<400> 2813

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tcacgtgcgg	ccatccatca	acgcgtgcag	agactgatcg	atctgggagt	cattgtaggc	180
tctggttatc	acgtaaaccc	gaaatctctg	ggatatcgta	cctgtactta	tgtcgggtatc	240
aaactggaaa	aaggatctat	gtataaagct	gtagtggccg	aattacagaa	aattcccagag	300
atcgtagagt	gccacttcac	aaccggccct	tacaccatgc	tgaccaaagt	atatgcacgc	360
gacaacgaac	acttgatgga	cctactgaac	aacaaaatgc	aagagatacc	gggagtaacc	420
gccaccgaga	ccctgatttc	tctggagcaa	agcatcaaga	aagaaattcc	tattcacgca	480
gataagtaa						489

<210> 2814

<211> 1254

<212> DNA

<213> B. fragilis

<400> 2814

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tccggtgaga	tagacggatt	aatgcccatt	gatactcttt	ctttctggaa	aaccactctt	180
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gatgatcctt	cgttgaaaga	aatagtacac	atggaagact	ctttggagat	catacggaca	480
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cgaaagacaa	aagaattgggt	agcaaacat	ccatcatcta	cttgggtgat	agtggaaat	660
cttcaaaaag	tttcatatgc	tgctccggaa	gaaatgaaat	ctgtgctgtt	gaacatggac	720
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ccctggcctg	aagtagaaag	tacgggagat	aatcataaaa	ttatagaaga	ttttgccttt	1140

gcaggtctac cttactttgt ttttatttca ccggatggga aaattatctc tctgactttt 1200
cgtaaagctt ttgacaaagc acaggaggtg atgaaatcgg agtttgatga ttga 1254

<210> 2815

<211> 387

<212> DNA

<213> B.fragilis

<400> 2815

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tatcccttca	acttaatcac	ctgtccgtcg	gctacaccgg	ccggtatcgt	aatacgaacc	180
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ctatgtccga	acatagattc	aaagaagtcc	gagaatcctc	cggcatacc	acccgagaac	360
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<210> 2816

<211> 1908

<212> DNA

<213> B.fragilis

<400> 2816

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aggattcact	acaggtttga	tttcggggaga	taccttgga	tagataagtg	tcagcatctc	180
gaaactttgc	ttcctttcgg	tacttttggt	gtgttttggt	ttgaaagtag	gagaataata	240
tctatattta	ctgtcgattc	atcacacat	gcaattatga	caatccaact	actattgggt	300
acgggagtaa	cagactgtct	gtggctttat	gtattatccc	tgcttttggt	tctgaccgtt	360
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cgcaaagatg	ccgtcggctt	ctccgatgtc	gatatctttg	gtgaagaaag	ggggaagcag	600
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ctgaatactt	ttatcaaagg	taccggactg	ggacttgcca	tctgccgggt	gattatcgaa	1800
cggttgggag	gaacgatcgg	agtggagact	cggaaggaa	agggttcctg	cttctggttc	1860
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<210> 2817

<211> 234

<212> DNA

<213> B.fragilis

<400> 2817

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aacgggttgt	tgaacgagga	gaccatgggc	aagttgaaag	actggaactc	tttcttaaga	120
aagaccctgg	tagaagtatt	gatggggagc	accccggttg	cgcaaaatta	ccaaagggat	180
tcggtatttc	gttgggaagg	acccctgtat	tgccccgttt	caaagggaca	ccgc	234

<210> 2818

<211> 3201

<212> DNA

<213> B.fragilis

<400> 2818

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agacaagtta	ctctgctctt	gctcgccggt	gcattaagct	tcccagctta	ttcgtagtga	120
acgcaagcaa	cagaagtatt	ggttcctgaa	gttactcaag	agaaagtga	aggaacagtt	180
gaagatgcat	tgggtccggt	tattgggtgcc	agtgtcatgg	taaaaggcac	gaccaatggt	240
gtcattacgg	acttagaagg	taagttctcg	ctgaatgatg	tgaaaaaagg	agatattatt	300
gtaatatctt	acatcggtat	cgttacacaa	gaaatacctt	atacaggaaa	acctattcaa	360
gtgaaacttg	ccgaagacag	caaggctttg	gaagaagtag	tggtagtcgg	ttatgccacc	420
gtaaaaaaag	ccaacctgac	cggagcagtg	tcggccgtag	atggtaaagt	gttggaagat	480
cgcccgatgg	tcaacctcgg	acaaggcttg	caaggtgcca	ttcctaactt	aaatgtaacc	540
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gataagaaaa	tcacgga	cagcaactccg	cgctatcatt	acggcatcaa	cctgggagcc	2760
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<210> 2819

<211> 207

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (1)

<223> Identity of nucleotide sequences at the above locations are unknown.

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tcttcaggag	tacatcatat	agaaaacggg	gaaaccgtaa	aaactctgcc	tgaaatcact	180
cacacaaata	taggaggact	gttataa				207

<210> 2820

<211> 621

<212> DNA

<213> B.fragilis

<400> 2820

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aggtatcagc	ataatgtgat	taatgcctat	atcaattcca	tccgttatac	cgacgatttt	180
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gtgcattcca	aatatcagtt	gcatgtaccg	ttcattgtat	ggacttcgga	cacctatcgg	360
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aaccgggtgg	tggtccattc	ggtactcgat	ctggccgggg	tgaccaccac	ctatgtaaac	480
gattcattat	cgggtggccag	tccgtcctat	acagagttcc	cccgttttta	cctgaacgac	540
cacaacgagc	cgcgttcgta	cgatgacatc	gggttacgta	aagaggactt	tgagatgttc	600
ggaaagatgg	ggatacgttg	a				621

<210> 2821

<211> 201

<212> DNA

<213> B.fragilis

<400> 2821

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aacattccga	acacctctta	tgaagtggat	ttcgaacggg	gtaaccccat	ttttttaaaa	120
gcccttaggg	cccggttacc	cttcggaaag	ctttgggatt	tgggtatccg	gatcaataac	180
cggaccttcc	agccattttg	a				201

<210> 2822

<211> 849

<212> DNA

<213> B.fragilis

<400> 2822

atgtctgttt	acaaaaatac	ctcctttgtc	ctacccttgc	aaaagaagtc	gaccaagaag	60
gctcttttga	cgataaagtc	acctgcaaag	gaaatagaat	caacaaacag	agggatttta	120
tcagtaatta	tctatctttg	cagcccgaag	aagataccta	tcagcaatat	gaagaaaata	180
tggatacttg	cagtcctgac	catctgttcg	gttgcaacac	aggcacaaga	agtttttctc	240
aatgcagacc	ttgtcagcag	ctacatctgg	cgtggaatga	agaatggaaa	tgcttccgta	300
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gagcgtgcct	gggtccagtt	ttgtgaattc	agttacccat	tcacagtaaa	gggagtagac	660
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gtcaatgtcg	gactttcggc	taccaagacc	ttgaatatct	cctccggatt	tactccggcc	780
atctttggca	aactgatagc	aaacccttac	gagaaccggg	tctacttcgt	tttcgggata	840
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<210> 2823

<211> 930

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (63), (64), (65)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2823

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ggacaaataa	tttcgacatt	caataaatgt	ggtatcttct	attgtcaacg	cggcagtgtg	180
gaagtctctt	tgggaaggttg	ccattatcat	atcaaaccgg	gggatgttta	tatctatatg	240
gcttctacct	tgggtgcactt	gttgcataag	agtgaagatg	ccgaggggat	tatgggtgaa	300
gtggactttt	actatattct	accgattgta	aacaaagtga	taaatgtgga	aagccagctc	360
tttatgcgga	aaaatccatg	tgtctccttg	tccggtgaac	aatgtgcca	ttttgaatat	420
ttgctgaaca	atctatggga	taggataaat	gcggaagact	gccagaagga	gaatgtccag	480
taccagcatc	tgaacttgga	actgataaaa	tcgatgggac	agactatctg	ctatgaaatc	540
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acaggagata	gtgccttgca	atggatcgta	cggatggtga	taaccgaagc	gaaacaatta	780
ttggaggaat	ctgatctgag	cataaaagag	atagcggacc	aactgaattt	tccgacacag	840
tctttctttg	gcaaatatct	taaacaatat	gtgggagttt	cgcccaaaga	atatagaaac	900
aatactgcga	caacgagaat	aaaacgctaa				930

<210> 2824

<211> 2265

<212> DNA

<213> B.fragilis

<400> 2824

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tatcagatga	gtaaaactgga	ggatccggaa	ataaaggtaa	aacttgccat	ggtgggtcac	180
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<210> 2825

<211> 231

<212> DNA

<213> B.fragilis

<400> 2825

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gaaatgtatt	gggaaactcc	ctctccctat	cgggtaaacac	ctttccttcc	ggatagcggc	180
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<210> 2826

<211> 762

<212> DNA

<213> B.fragilis

<400> 2826

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cggttacgca	tcatttttcaa	taagaatata	tatataccgg	tgggagataa	ctataaggaa	720
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<210> 2827

<211> 1707

<212> DNA

<213> B. fragilis

<400> 2827

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<210> 2828

<211> 246

<212> DNA

<213> B. fragilis

<400> 2828

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atctgcttta	tgtcatttga	tttgtactta	atgtgttgta	atataatgat	ctatggattt	120
aagtctaattg	tgaatcaggg	tttgttgcgt	aagagagacg	ttataggctt	attgaagaat	180
gaagagataa	tttcgaataa	aatattcaat	atttttataa	acgaagagct	ggatttatta	240
tattaa						246

<210> 2829

<211> 954

<212> DNA

<213> B. fragilis

<400> 2829

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------------	------------	------------	------------	------------	------------	----

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aatcctaata	acccaagcgc	taaggataag	tttcaggaga	ttaatgaagc	taacgaagta	180
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<210> 2830

<211> 1035

<212> DNA

<213> B.fragilis

<400> 2830

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cagctcgaag	cagtcgttgc	cggaaaccgga	cttaaagata	ttgaaaaaca	gatacctccc	180
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ctgacagccg	actgtacatc	attggaaata	ggcgatcacg	aagataagaa	agaaggcaag	420
gtctacaaga	acctgcttta	tcagattcgt	cctgcattcg	gtggcaacat	cgttgctacc	480
attgtcaacc	ccgaacaccg	tcctcaaagt	gcaaccgttc	gcgaaggagt	gatgaaaaaa	540
gccattctgg	cagcagacta	caaaggtgaa	gtaatccatc	atgatgtgaa	gaaatatgta	600
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gaaagcggtg	tcatcatctc	tatcaacaac	gatccgtcag	ctccgatcaa	tacgattgca	960
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<210> 2831

<211> 1887

<212> DNA

<213> B.fragilis

<400> 2831

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gactggcgaga	aaatggaaac	gtatgctttc	gttcactttg	gtctgaacac	cttcaacgac	180
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<210> 2832

<211> 213

<212> DNA

<213> B.fragilis

<400> 2832

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gctgacacaa	atcttggtta	tatattctgt	aatctttcc	ttatagttat	ctcccaccg	180
tatatatata	ttcttattga	aatgatgcg	taa			213

<210> 2833

<211> 189

<212> DNA

<213> B.fragilis

<400> 2833

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cagatttata	aggatataca	cttacaggca	accgaaatcc	ctgtattgcc	ctatacaatc	120
tgttcatctg	tgataaactt	ccggcacatg	ctcaaaaaga	gcttcaccaa	cctaactcc	180
ggtcattaa						189

<210> 2834

<211> 1308

<212> DNA

<213> B.fragilis

<400> 2834

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<210> 2835

<211> 189

<212> DNA

<213> B.fragilis

<400> 2835

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gaaatgtaa						189

<210> 2836

<211> 753

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (719), (720)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2836

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<210> 2837

<211> 972

<212> DNA

<213> B.fragilis

<400> 2837

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<210> 2838

<211> 4047

<212> DNA

<213> B.fragilis

<400> 2838

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<210> 2839

<211> 234

<212> DNA

<213> B.fragilis

<400> 2839

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ctctctccca	ataagtgtac	aaacaactct	attatctact	tttttgcaag	agaagccgat	180
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<210> 2840

<211> 1221

<212> DNA

<213> B.fragilis

<400> 2840

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tctgtgccgt	tgggtgggtga	ttatctgttt	gcttccatta	gcccgggtaca	tacgttttagt	180
tggcagacca	tacggatggc	atgggttgctg	actctgcctt	tcattctgct	tttcgtagtc	240
aataactatt	ttctggctcc	ccggctgtta	cttcggaaac	ggtattgggc	ttatgcactt	300
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<210> 2841

<211> 321

<212> DNA

<213> B.fragilis

<400> 2841

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ggcgagcact	atctgcttgc	gtcgcaactt	cgggatgtgg	aacgatacag	ccgtatgtat	180
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gaaatcatgc	gaagggaat	cagttcgctc	cggaaccagc	ttattgtctt	taagagagaa	300
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<210> 2842

<211> 1764

<212> DNA

<213> B.fragilis

<400> 2842

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tcgggttgta	atgacggttt	cctggaaaga	gccccggaag	cgatcaatga	caaaaccttc	180
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<210> 2843
 <211> 189
 <212> DNA
 <213> B.fragilis

<400> 2843
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<210> 2844
 <211> 201
 <212> DNA
 <213> B.fragilis

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 gggaaactct ctccggagaa tgagatacgt gcagaagaat atagtaatag agtgattatg 180
 tatggaaacg aggagcggtta g 201

<210> 2845
 <211> 1314
 <212> DNA
 <213> B.fragilis

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<210> 2846
 <211> 1041
 <212> DNA
 <213> B.fragilis

<400> 2846
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<210> 2847

<211> 285

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (156)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2847

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<211> 2493

<212> DNA

<213> B.fragilis

<400> 2848

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 <212> DNA
 <213> B.fragilis

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 <212> DNA
 <213> B.fragilis

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<211> 936

<212> DNA

<213> B.fragilis

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<210> 2855
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 <212> DNA
 <213> B.fragilis

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<210> 2856
 <211> 204
 <212> DNA
 <213> B.fragilis

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<210> 2857
 <211> 192
 <212> DNA
 <213> B.fragilis

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 <212> DNA
 <213> B.fragilis

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cacgaaaaga	taacgatcct	tcgcaaggaa	tttacggata	agaaaaacaa	gaccggattt	1380
aagaagctgg	aaaaaatgct	ctccacattt	aacttgagag	acttcctga	agttccggct	1440
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<210> 2859

<211> 1179

<212> DNA

<213> B.fragilis

<400> 2859

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tatctgtttg	cccgccagca	tggtggagat	ttgattttcc	gtatcgagga	tacggattcc	180
aaccgtttcg	ttccgggtgc	ggaagaatat	attctggagt	ctttcaaatg	gttaggaata	240
cagtttgatg	aaggtgtaag	cttcggagga	gaatacggac	cgtaccgcca	gtcggaacgt	300
cgtgaaatat	acaagaagta	tgtacaagtg	ttacttgata	acggaaaggc	ctacatcgct	360
ttcgatactc	cggaagaact	gtatgtcaag	cgtgctgaaa	tggtttat	gcattatgat	420
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catttaattg	aggtgtcaca	cgtgattcgt	ggtgaagagt	ggctgccttc	cgctccgctg	720
cacgtgctgc	tgtatcgtgc	attcggctgg	gaagatacta	tgccggcttt	tgcccacttg	780
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aatccgggta	acgaccagga	agtgatgtct	atggacgagc	tgatccgtct	gtttgacctg	1020
catcgttgca	gcaagtcggg	tgcaaaaatt	gattataaaa	aaggtatctg	gttcaatcat	1080
acttacattc	aacagaaatc	tgacaaaaaa	aatgcccga	ctgtttgtac	cggtgctgaa	1140
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<210> 2860

<211> 2115

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (1399)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2860

accttttttt	ccacactatt	gttttttttt	gtactttttcg	caaaaaattc	aagggttatg	60
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ttcgtcggta	ctgtggcgtt	cattgtttac	ttcctgcccc	gtgacgggaa	gtttaactat	180
cagtttgaca	ttaacaaacc	atggaagtat	ggccagttaa	tggcaacttt	cgattttccg	240
atctacaaag	acgaagcgg	agtaaaacgg	gaacaagaca	gtcttctggc	ttctttccag	300
ccttactttg	aactggacaa	agaagtggag	aagagtgcc	ttgccaaact	gaaagagaat	360
tatcatgccc	atctgaaagg	catattgcct	tgcacggact	acatccgata	catcgagaga	420
ggcctaaaa	ccatctatca	atcgggagtc	gtatcgacag	aagagatg	gaccctcctc	480
cacgacagca	tcttttctgt	catggtgatt	gaagataagt	tggccaacca	acggacgacc	540
gacggcatct	ataccgtaaa	gagagcctac	gagaatctta	tatcgggtga	taccgccc	600
tataacagag	acatcctg	gcaatgtgca	ctcaacgact	acattacccc	caatctcatt	660
tacgattctg	tgcgtagcga	gacagcccgg	aaagaattgc	tgcacaacta	ctcctgggca	720
aacggagtag	tacaaagcgg	ccagaaaatc	attgaccgtg	gagagatagt	caacaaacaa	780
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cagaagcgac	tgatcttggg	cggacaaatc	ttgtttgtcg	gcatattgat	actctgcttt	900
atgctttacc	tggaaactgtt	ccgcaaagat	tattatgaac	gcaaaggcag	cttatcggtg	960
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aatccgttct	cgaagagac	agccatactg	atgatggcag	actccgtaga	agccgcctca	1920
cgcagcttgc	cggagtatac	cgaagagagc	atcagtaatc	tggtagataa	gattatcgat	1980
tcgcaagtac	aagaggggta	tttcaaagaa	tgcccgatca	cattcaaaga	catcgcgacg	2040
ataaaagctg	tattcaaaga	aaagctgaaa	acgattttatc	acacacgcat	cagctatcct	2100
gagttaaaga	agtaa					2115

<210> 2861

<211> 324

<212> DNA

<213> B.fragilis

<400> 2861

tcgttaattc	cctctttatt	taccgaacat	tcctgtgcct	gcagcgttcc	tatatcaaaa	60
caatataaat	caagcattat	gaattttatc	tggtacattt	tgataggtat	ccttgccggt	120
tattttgccg	gtaagataat	gcgtggagga	ggattcggcc	ttttggtcaa	tctcttatta	180
gggattatag	gcggtgtgct	gggcggttgg	gtgtttgccc	ttctgggact	ggcagcaacc	240
ggaattatcg	gtagtctgat	tacttcggtt	gtcggcgcca	tcttatttct	ctggatagcc	300
tcctttcttca	gccgctccc	atga				324

<210> 2862

<211> 552

<212> DNA

<213> B.fragilis

<400> 2862

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gtgttcaatg	accagaaggt	ttctaaattt	gtaaaccatc	tgatgtatga	tggaaagaag	180

aacacttctt	atgaaatctt	ttacgctgca	ctggaaacag	taaaagcaaa	acttcctaac	240
gaagaaaaaa	ctgctcttga	aatctggaag	aaagcgtag	ataacgtaac	tcctcaagtt	300
gaagtaaaat	cacgccgtgt	gggtggtgca	actttccagg	ttcctaccga	aattcgcccg	360
gatcgtaaag	aatcaatctc	aatgaagaac	ctgattctgt	tcgctcgcaa	gagaggtggt	420
aaatctatgg	ctgataaatt	ggctgctgaa	atcatggatg	cattcaatga	acaaggcggt	480
gctttcaaac	gtaaagaaga	tatgcacaga	atggctgaag	ctaaccgtgc	atttgctcat	540
ttcagattct	aa					552

<210> 2863

<211> 486

<212> DNA

<213> B.fragilis

<400> 2863

aaaagcaatt	taaaatatcg	gacgaaggaa	tctgtttgtt	gcccattgctc	cttagagcgc	60
tctgtcggct	tactaaaaaa	acagctgtta	ctactggaag	aaatctattc	caattactcc	120
tcgtccacag	aaggggaaat	catcacacaa	tctcaccgga	cggatgaatgc	aaaaaggatc	180
ccgatttctt	tttcgtatga	aggaggcatc	acactcgaca	cggaaacatt	acactatagc	240
agcccaagtg	agaagtttgc	aacaacttgg	aaaaatatat	tatttcacac	cattttctatc	300
agaataatta	tcggactcca	taaaagtaat	atggaaccgt	ccgagtggag	agaaatcatt	360
caccagaaca	catatcagaa	atttcaccgc	aaacatagaa	ggcgattgcc	attatcattc	420
cgtgaacggt	atacacaata	caaaaacaag	gcttccgacg	cattcaacca	agacgctcca	480
aagtaa						486

<210> 2864

<211> 444

<212> DNA

<213> B.fragilis

<400> 2864

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cagagtagca	ataacttcgt	cattgttctt	gaggtcagta	caaaccagtc	cgcgaagcgt	120
accgcagtct	tcttcattaa	taatcacatc	atgcgaaacg	tcaaccagac	gacgagtcaa	180
gtatcccgcg	tcggcagtct	tcaaagcagt	atccgcctaa	cctttacggg	caccgtgagt	240
agagataaag	tactccaaca	cagaaagtcc	ctcttttaag	ttagacaaga	taggattctc	300
gatgatctga	ccaccttcag	cacctgcctt	ctgcggtttt	gccatcaaac	cacgcatacc	360
ggagagctga	cggatctgct	cttttagaacc	acggggcaccg	gaatcaagca	tcattgtacac	420
agagttgaaa	ccctgatcat	ctga				444

<210> 2865

<211> 504

<212> DNA

<213> B.fragilis

<400> 2865

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tactttcttct	tctgtaatat	tagaaggatc	atcaaagtat	ttttccatca	acgcatcatc	120
aaattcagct	actttttcaa	gcattttatc	tctccattcg	ttggcttcgt	caacgagatt	180
agcaggaatt	tcttctatgg	tatagtcagc	acccattggt	tcattcggtc	agtagatagc	240
tttcattttt	atcagatcaa	ccaatccttt	gaagttttct	tctgcaccga	taggaataac	300
aaccggacac	ggatttgcac	ccaaaacagc	cttcatctgg	cgaacaactt	caaagaagtc	360
agcacccgaa	cggatccattt	tggttaacgta	agcgatacgc	ggtacgttat	atttgtcagc	420
ctgacgccat	acagtttccg	actgaggttc	tacaccacct	acagcacagt	aagcagcaac	480
agcaccatca	aggatacgaa	gtga				504

<210> 2866

<211> 420

<212> DNA

<213> B.fragilis

<400> 2866

attaaaaaac	aattttaa	gcctacaatt	cagcaattag	taagaaaagg	acgcgaagt	60
ctggctcgaga	aaagtaa	tccggccttg	gattcttgtc	ctcaaagacg	tggcgtttgc	120
gtgagagt	atactactac	tccgaaaaag	ccgaactctg	caatgcgtaa	agtagctcgt	180
gtgcgtttga	ctaaccagaa	agaggtgaac	tcttacattc	cgggagaagg	acacaacttg	240
caggagcact	caatcg	ggttcgcgg	ggtcgtgtga	aagaccttcc	gggtgtacgt	300
taccacatcg	ttcgcgg	tcttgataca	gcaggtgtag	ccggacgtac	tcagagacgt	360
tctaaat	acg	gagctaagcg	tccgaaaccg	ggacaagcag	caccggctaa	420
				gaagaaataa		

<210> 2867

<211> 273

<212> DNA

<213> B.fragilis

<400> 2867

cacttggt	taa	aagagatt	at	ctttgtccaa	aagaaaatct	taaggcctat	gaaaaatatt	60
aattacag	ta	aaaaaagca	attttaaata	tccgacgaag	gaatctgttt	gttgccc	atg	120
ctccttag	ag	cgctctgtcg	gcttactaaa	aaaacagctg	ttactactgg	aagaaatcta		180
ttccaatt	ac	tctcgtcca	cagaagggga	aatcatcaca	caatctcacc	ggacgggtgaa		240
tgc	aaaaagg	atcccga	ttt	ctttttc	gta			273

<210> 2868

<211> 2130

<212> DNA

<213> B.fragilis

<400> 2868

aggaaaaaga	aaatggcaaa	gaatgattta	catttgactc	gtaatatcgg	tatcatggct	60
cacatcgatg	ccggaaagac	aacaacttct	gaacgtatcc	tgttctacac	cggattgact	120
cacaaaatcg	gagaggtaca	cgatgggtgct	gcaacaatgg	actggatgga	gcaagagcag	180
gaacgtggta	ttactatcac	ttctgccgct	acaactactc	gttggaagta	tgctgggtgat	240
acttataaaa	tcaacctgat	tgacactccg	ggacacgtgg	actttactgc	tgaggtagaa	300
cgttcacttc	gtatccttga	tgggtgctgtt	gctgcttact	gtgctgtagg	tgggtgtagaa	360
cctcagtcgg	aaactgtatg	gcgtcaggct	gacaaatata	acgtaccgcg	tatcgcttac	420
gttaacaaaa	tggaccgttc	gggtgctgac	ttctttgaag	ttgttcgcca	gatgaaggct	480
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ggattgggtg	atctgatcaa	aatgaaagct	atctactggc	acgatgaaac	aatgggtgct	600
gactatacca	tagaagaaat	tctgtcta	ctcgttgacg	aagccaacga	atggagagat	660
aaaaatgctt	aaaaagtagc	tgaattt	gatgcgttga	tggaaaaata	ctttgatgat	720
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cgtgaggttt	ataagaaaca	atctggtggt	cgtggtaagt	tcgctgat	tattgtgaac	1560
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tcattccacc	cgggtgactc	tgaccagttg	tctttcgaaa	tctgtgctat	ccaggcatat	1800
aagaatgctt	gtgctaaggc	aggtcctgta	ttgatggagc	ctatcatgaa	gctggaagtc	1860

gttactccgg	aagaaaacat	gggtgacgtt	atcgggtgact	tgaacaaacg	ccgtggccag	1920
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gcagaaatgt	tcggttacgt	aaccgcgttg	cgtactatca	cttctggtcg	tgccacttca	2040
tcaatggat	actctcatca	cgctcaggtt	tctagctcta	ttgctaaagc	ggatttggaa	2100
gaagtaaaag	gacgtgctga	tttactctaa				2130

<210> 2869

<211> 318

<212> DNA

<213> B.fragilis

<400> 2869

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gttgacaaat	cagctgagaa	gatcggttaga	acagtgaagg	ctaccgggtgc	tattgttagc	120
ggaccgattc	cccttccgac	gcacaagcgt	atctttacag	taaaccgctc	tactttcggt	180
aacaagaaat	caagagagca	gtttgaactt	tcttcattca	agagactgat	cgatatctat	240
agctcaacag	ctaagactgt	agatgctctg	atgaagttag	agttgccgag	tggtgtagaa	300
gtagaaatta	aagtgtag					318

<210> 2870

<211> 264

<212> DNA

<213> B.fragilis

<400> 2870

tttatgggaa	gtggaaatgc	aaaattcctg	gtaggacttg	gaatcggttc	tgccatcggt	60
gcgctggttt	atcatttttc	gcgcacggcg	aaagctaaaa	aactgaaaaa	tgatgtgttc	120
aatgctcttc	atgaaataga	ggctgatgcc	gaactggcag	tagtcgaagc	aaaagacaaa	180
gccgtgaagg	ctggtgccaa	agtagccgga	aaagtagctg	ataaagcgac	tgaggtgaaa	240
gaaaaattga	cacctaactc	ttga				264

<210> 2871

<211> 1149

<212> DNA

<213> B.fragilis

<400> 2871

atcaattata	tcattggaatt	aaaaaagaaa	gagaatatag	gttggattga	cctgttaagg	60
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gatgccaatc	gggaatcggt	cttaacagga	gtgttttttg	gaagcctgat	gcgcccgtgt	180
gttcccattt	ttgttatgat	gaccggggta	ttgctattac	ccgtacaaac	cgacatggca	240
gcgttctata	agaaaaggat	aggacgcctg	atccctccaa	tgattttctg	gtcactggtc	300
ttgcctgttt	tgtatttcat	atatctgaac	tatatcaatc	ccgatactca	aaatccactg	360
atctcgatgc	cagatcacag	tcttgaagct	ttatggttca	aactatatac	atttatattt	420
aatttcaatt	ttgacacagt	cccgttgtgg	tatctttata	tgttgattgg	gttatatttg	480
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gcatcactcg	cattcggcat	ttatctgagc	cattatgtat	ttgtattcat	tgcttacgat	1020
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ttcctgacat	gttacgccat	cgtttggcta	atgtcaaaaa	gcaaattgac	caatcgcttc	1140
atccggtaa						1149

<210> 2872

<211> 4314

<212> DNA

<213> B.fragilis

<400> 2872

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agtggtagaag	tattaaagcc	tgaaccatc	aactatcgta	catacaaacc	tgagcgtgac	180
ggtttgttct	gcgagcgtat	cttcggcccc	atcaaagact	acgaatgcc	ttgcggtaaa	240
tataaacgca	tccgttataa	aggattgtc	tgtgaccgtt	gtggtgtaga	agttactgaa	300
aagaaagtac	gtcgcgaacg	tatgggacat	atccagcttg	tcgtgcctgt	agctcacatc	360
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<210> 2873

<211> 333

<212> DNA

<213> B.fragilis

<400> 2873

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<210> 2874

<211> 378

<212> DNA

<213> B.fragilis

<400> 2874

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<210> 2875

<211> 195

<212> DNA

<213> B.fragilis

<400> 2875

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<210> 2876

<211> 831

<212> DNA

<213> B. fragilis

<400> 2876

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<210> 2877

<211> 429

<212> DNA

<213> B. fragilis

<400> 2877

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<210> 2878

<211> 288

<212> DNA

<213> B. fragilis

<400> 2878

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<210> 2879

<211> 399

<212> DNA

<213> B. fragilis

<400> 2879

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<210> 2880
 <211> 1488
 <212> DNA
 <213> B.fragilis

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<210> 2881
 <211> 2367
 <212> DNA
 <213> B.fragilis

<400> 2881
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<211> 183

<212> DNA

<213> B.fragilis

<400> 2882

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<210> 2883

<211> 207

<212> DNA

<213> B.fragilis

<400> 2883

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<210> 2884

<211> 264

<212> DNA

<213> B.fragilis

<400> 2884

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<210> 2885

<211> 270

<212> DNA

<213> B.fragilis

<400> 2885
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<210> 2886
<211> 780
<212> DNA
<213> B.fragilis

<400> 2886
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<212> DNA

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<211> 192

<212> DNA

<213> B.fragilis

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<213> B.fragilis

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<211> 1197

<212> DNA

<213> B.fragilis

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<212> DNA

<213> B.fragilis

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<211> 939

<212> DNA

<213> B.fragilis

<400> 2894

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<212> DNA

<213> B.fragilis

<400> 2896

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<210> 2897

<211> 1242

<212> DNA

<213> B.fragilis

<400> 2897

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<210> 2898

<211> 237

<212> DNA

<213> B.fragilis

<400> 2898

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ccgccattga	tgtggacttt	gtcaatgacg	ggcagtttag	attattctaa	gattgtatcg	180
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<210> 2899

<211> 267

<212> DNA

<213> B.fragilis

<400> 2899

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aagcatgacc	gcaaaggaca	gactcctttg	gtagagggtcg	atggaaactt	tttgtacaaa	180
gaagaccttc	agggccgggtg	ctccccgcgcg	gtttgtcaaa	agatgacagt	cttcttttcg	240
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<210> 2900

<211> 645

<212> DNA

<213> B.fragilis

<400> 2900

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gatgagcctg	ttgatgattt	gcttgatttt	ttatttgacc	tatatectac	agggttttat	600
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<210> 2901

<211> 252

<212> DNA

<213> B.fragilis

<400> 2901

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ctgagaaact	cacacctttt	ggaggaattt	tttcaatcat	ggagaaattt	gactccatgc	180
tttcacccgt	tatcgactca	acactgggtc	agagatgcag	cagtatcttc	ggatatcagt	240
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<210> 2902

<211> 1716

<212> DNA

<213> B.fragilis

<400> 2902

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<210> 2903

<211> 228

<212> DNA

<213> B.fragilis

<400> 2903

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ataaaaaccg	gaattgcaat	aactttttct	ctttttttgt	atacgaaacc	tatgaatttt	180
agcgatttgg	aacgttttcg	gggtgaaaat	agaaaatatg	gattgttaa		228

<210> 2904

<211> 1377

<212> DNA

<213> B.fragilis

<400> 2904

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<210> 2905

<211> 795

<212> DNA

<213> B.fragilis

<400> 2905

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gagtttataa	aagtgtgtag	catggagcgt	aacgaattgc	gtgaatatat	aaaatcctgg	780
aaaaacaatg	ggtaa					795

<210> 2906

<211> 612

<212> DNA

<213> B.fragilis

<400> 2906

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<210> 2907

<211> 1317

<212> DNA

<213> B.fragilis

<400> 2907

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<210> 2908

<211> 1560

<212> DNA

<213> B.fragilis

<400> 2908

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<210> 2909

<211> 1884

<212> DNA

<213> B.fragilis

<400> 2909

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<210> 2910

<211> 1716

<212> DNA

<213> B.fragilis

<400> 2910

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<210> 2911

<211> 324

<212> DNA

<213> B.fragilis

<400> 2911

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attattatta	ctaaaattgc	cgattatgag	agtaattata	ttaaaaaagc	cggtttggtta	180
gaagggtgatg	aaattattgc	tataaatgaa	attcctatta	aaatgatcac	tatagaagag	240
aatacaaaagt	taaatcgacg	aggtcaagg	aaatcctata	aaataccggt	ggttattgat	300
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<210> 2912

<211> 210

<212> DNA

<213> B.fragilis

<400> 2912

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cattataaag	cttttcaact	ttaccctca	tcgcagtatc	catttcggaa	agtttcaata	180
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<210> 2913

<211> 1020

<212> DNA

<213> B.fragilis

<400> 2913

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tgtagcggat	tcttgttttt	gatggaaaca	gcagccaatt	ttatccgttc	gggacgatat	420
aaaaagataa	tcattgtttg	tgcaagataa	atgtcatcaa	tggtagatta	cacagagcgt	480
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atctgggatt	ttgaagagaa	acttaagaaa	ggcgataaca	tcattttcac	tgcgtttggt	960
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<210> 2914

<211> 393

<212> DNA

<213> B.fragilis

<400> 2914

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tttatttcat	tttttatcat	tttactatg	aacatttatg	ttggaaacct	tagctaccgt	180
gttaaggaag	cagatctgca	acaagttatg	gaagactacg	gaacagtaac	ttcttgcaaa	240
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gatgcagccg	gtgcaaaggc	tatcgccgaa	ttgaacggag	ctgaatacga	aggctcgacc	360
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<210> 2915

<211> 189

<212> DNA

<213> B.fragilis

<400> 2915

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gaagcagtta	gctcttcttt	gttaataaat	gacatttggg	gatactatgt	gttctacttg	180
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<210> 2916

<211> 774

<212> DNA

<213> B.fragilis

<400> 2916

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<210> 2917
 <211> 675
 <212> DNA
 <213> B.fragilis

<400> 2917
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<210> 2918
 <211> 1368
 <212> DNA
 <213> B.fragilis

<400> 2918
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<210> 2919
 <211> 267
 <212> DNA
 <213> B.fragilis

<400> 2919
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 tgggttcaga acgtcgtgag acagttcgggt ctctatctat cgtgggcgta tgaaatttgc 180

gtggctctga cactagtagc agaggaccgt gttggactga cctctggttt accggttgtg 240
ccgccagggtg cattgccggg tatctaa 267

<210> 2920

<211> 243

<212> DNA

<213> B.fragilis

<400> 2920

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taciaattat cagtaaatat tcgtatttta aatagtattt tatttataac ccgctttccc 180
tactcccagg gtcagagtag aaacagggca gcccggcgct ccctttcctt cccccccgta 240
taa 243

<210> 2921

<211> 291

<212> DNA

<213> B.fragilis

<400> 2921

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gctgatataa agcaaacatt caatagtgtt gactatgtag gtaatgatag atttgtcttt 180
aacatcaaag gcaatgatta caggctggtt gctatgattt tgtttgctgc taaaaaagtg 240
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<210> 2922

<211> 783

<212> DNA

<213> B.fragilis

<400> 2922

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gaatgggagg gcacaaaaga tgacattttc acatccacca acgaacagtt gaataacttc 720
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taa 783

<210> 2923

<211> 255

<212> DNA

<213> B.fragilis

<400> 2923

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ccaccacaaa tgaaaaggat gtttttcgtg tttacgggaa tcatcttctg gtcgggggtgc 240
ttgcgtcctc cctga 255

<210> 2924
 <211> 1233
 <212> DNA
 <213> B.fragilis

<400> 2924

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aatatatcct	tttattctgt	cgattttactg	gaaatggaga	aatgaaagg	ggaagaaata	180
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<210> 2925
 <211> 1212
 <212> DNA
 <213> B.fragilis

<400> 2925

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<210> 2926
 <211> 252

<212> DNA

<213> B.fragilis

<400> 2926

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ggtgttagtt	ctaaggcaag	taatttagag	ggtaataagg	attgcggata	ccctttatct	180
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<210> 2927

<211> 504

<212> DNA

<213> B.fragilis

<400> 2927

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tcctctttgt	gtgtcataga	tgttacttgt	gaatattcctg	ttgagaaagt	gaatatacat	180
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ggatctgctg	aagagtacag	ttctataacc	gcatgggatg	ccgatttttg	catgcaagaa	420
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<210> 2928

<211> 807

<212> DNA

<213> B.fragilis

<400> 2928

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<210> 2929

<211> 1257

<212> DNA

<213> B.fragilis

<400> 2929

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<210> 2930

<211> 741

<212> DNA

<213> B.fragilis

<400> 2930

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aatgcaatgg	tgttgagca	tgtgattaaa	tcgcaagccg	ggtatttgaa	tcctatatatt	180
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cgcattatct	tcctcgggtac	acagattgac	gattatacag	ccaatacgtc	acaggcacag	300
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<210> 2931

<211> 420

<212> DNA

<213> B.fragilis

<400> 2931

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gatcagcaaa	actccttagc	tatttctgta	gaagattttg	aaaggggaga	ctataagctg	360
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<210> 2932

<211> 1380

<212> DNA

<213> B.fragilis

<400> 2932

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cgtgtcgact	atcagatcag	taattatatt	caggcttttg	gtagcagaga	aagaatggaa	360
gcagagttta	ataagacctc	tacacagatt	cgtgaagcca	tgcgcgagaa	tgcccgtgac	420
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gtagaagtac	agattattac	gcagcagcct	aaaataacctg	ttgccgaaat	tgaagatgta	600
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<210> 2933

<211> 972

<212> DNA

<213> B.fragilis

<400> 2933

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<210> 2934

<211> 1905

<212> DNA

<213> B.fragilis

<400> 2934

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ttggtcgata	atctgtttgc	ctgtccttca	cccaactata	cgccggacgg	acgcgtggtg	1860
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<210> 2935

<211> 711

<212> DNA

<213> B.fragilis

<400> 2935

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<210> 2936

<211> 1233

<212> DNA

<213> B.fragilis

<400> 2936

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<210> 2937

<211> 1620

<212> DNA

<213> B.fragilis

<400> 2937

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accgctttgg	tatcggttta	tcacaaagaa	ggtttggtatg	aaatcattac	caaactgcac	180
gaagaaggag	tagagttcct	gtcaacaggc	ggaactcgtc	agtttattga	atcgctgggc	240
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<210> 2938

<211> 384

<212> DNA

<213> B.fragilis

<400> 2938

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gcaaaggagc	tgattttttc	acttcgtcgg	gagacttttc	tgaaggatga	acttgagcat	300
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384

<210> 2939

<211> 663

<212> DNA

<213> B.fragilis

<400> 2939

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<210> 2940

<211> 1422

<212> DNA

<213> B.fragilis

<400> 2940

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<210> 2941

<211> 1296

<212> DNA

<213> B.fragilis

<400> 2941

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<210> 2942

<211> 867

<212> DNA

<213> B.fragilis

<400> 2942

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gtcatagcat	cagaatatta	taaaacacgt	cacgatgtag	ctgcaaagtt	atttctattc	180
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<210> 2943

<211> 1542

<212> DNA

<213> B.fragilis

<400> 2943

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tcgcaagctt	ccgattactt	ttgcacgtgg	aattttacaag	gctatgtggc	cagctataaaa	180
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cagaattggg	tggaattgta	tcctgcaatc	cgaaaagatc	tttactttgt	aatggacgat	300
tcgtgggata	ttcctaagaa	tgtgaatgat	tcacccaatc	cttatttagg	ttgcgtagaa	360
ctgagttctg	atcgttttcc	gtcttttctg	ggagatgcag	tgagcgttt	gaaacaatta	420
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<210> 2944

<211> 810

<212> DNA

<213> B.fragilis

<400> 2944

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<210> 2945

<211> 252

<212> DNA

<213> B.fragilis

<400> 2945

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ctgagaaaact	cacacctttt	ggaggaattt	tttcaatcat	ggagaaattt	gactccatgc	180
tttcacccgt	tatcgactca	acactgggtc	agagatgcag	cagtatcttc	ggatatcagt	240
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<210> 2946

<211> 303

<212> DNA

<213> B.fragilis

<400> 2946

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gggaccttcc	tctcagaacc	cctatccatc	gaaggcttgg	tgagccgtta	cctcaccaac	120

aacctaattgg	aacgcattccc	catccttttac	cgggaatcctt	taataatgaa	accatgcgga	180
atcatttatgc	tatcgggtat	taatctttct	ttcgaaaggc	tatccccgag	taaagggcag	240
gttggtatcg	tgttactcac	ccgtgcgcgc	gtcgccagca	aagaaagcaa	gctttctttc	300
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<210> 2947

<211> 852

<212> DNA

<213> B.fragilis

<400> 2947

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gcagtgtgta	tctatcattt	tattttggga	aatcccacta	actttatgaa	caatgaccct	180
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<210> 2948

<211> 198

<212> DNA

<213> B.fragilis

<400> 2948

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aaccgaccat	ctcctccctc	gcgactcccg	gagggtgatt	taaagttcac	cggcaggag	180
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<210> 2949

<211> 195

<212> DNA

<213> B.fragilis

<400> 2949

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<210> 2950

<211> 2379

<212> DNA

<213> B.fragilis

<400> 2950

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<210> 2951

<211> 852

<212> DNA

<213> B.fragilis

<400> 2951

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<210> 2952
 <211> 1044
 <212> DNA
 <213> B.fragilis

<400> 2952

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<210> 2953
 <211> 213
 <212> DNA
 <213> B.fragilis

<400> 2953

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<210> 2954
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 <212> DNA
 <213> B.fragilis

<400> 2954

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<210> 2955

<211> 1440

<212> DNA

<213> B. fragilis

<400> 2955

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<210> 2956

<211> 564

<212> DNA

<213> B. fragilis

<400> 2956

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<210> 2957

<211> 309

<212> DNA

<213> B.fragilis

<400> 2957

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<210> 2958

<211> 198

<212> DNA

<213> B.fragilis

<400> 2958

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aatcaacaga	ttagttcaca	cgtattcttt	ttggcacaag	atttgggaaa	tactcaatac	180
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<210> 2959

<211> 1092

<212> DNA

<213> B.fragilis

<400> 2959

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<210> 2960

<211> 183

<212> DNA

<213> B.fragilis

<400> 2960

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<210> 2961

<211> 873

<212> DNA

<213> B.fragilis

<400> 2961

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<210> 2962

<211> 2046

<212> DNA

<213> B.fragilis

<400> 2962

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<210> 2963

<211> 1269

<212> DNA

<213> B.fragilis

<400> 2963

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cgagaagaaa	atggagtagt	actttattat	aagagtagta	gaggagagaa	ggatgagact	1260
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<210> 2964

<211> 258

<212> DNA

<213> B.fragilis

<400> 2964

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tatcataatt	ctatttgttt	agagtggaa	aatgcagaaa	tcttttcggg	aactgccaag	180
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agcaaaaaat taccttga

258

<210> 2965

<211> 759

<212> DNA

<213> B.fragilis

<400> 2965

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gatcttggtt	tcgatgagaa	tgacacagaat	acagcaaaag	aaatcgaagc	aatgggtgtg	180
aaagccaaag	gatatgcgtc	gaatgctgcc	aattttgaag	atactgcaaa	agtagtgga	240
gagattcata	aagatttcgg	ccgtatcgat	attctggtaa	acaatgcagg	tatcactcgt	300
gacggattga	tgatgcgtat	gagcgaacag	cagtgggata	tggttattaa	tgtgaacctg	360
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agcattatta	atatggcttc	tgtagtgggt	gttcacggta	atgccggaca	agctaactat	480
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cctgaagatg	tggctaacat	cgctactttc	cttgcttctg	atatgtcttc	ttatgtatca	720
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<210> 2966

<211> 267

<212> DNA

<213> B.fragilis

<400> 2966

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tgggttcaga	acgtcgtgag	acagttcggg	ctctatctat	cgtgggcgta	tgaattttgc	180
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<210> 2967

<211> 1389

<212> DNA

<213> B.fragilis

<400> 2967

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atccttttgc	ttttggcatt	ggtatgctat	ctttgtatc	ctttggaaat	accggctctt	180
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<210> 2968

<211> 603

<212> DNA

<213> B.fragilis

<400> 2968

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ggctttgccg	ataccttaat	gattgggtcat	cacagcacca	acgaactggg	agcagcctcc	180
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cgttgacgtt	tgcttgccaa	tcttttggtc	ggtattttat	taaccgtaat	tatgggcatt	360
ctctatctga	atgttgaaag	attggggcaa	ccggaagagt	tattaccctt	gatcaagccc	420
tattatctga	tactacttgc	ctcgtcgttc	tttgtgttgc	tatttaacgg	attcaaacag	480
tttaccgatg	gaataaccga	tactaagaca	gctatgtgga	tacttttggg	tggaaatgta	540
ctgaacctaa	aatccgcaac	tatcatccaa	tacacgatta	agggtagatt	tatgagtcgt	600
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<210> 2969

<211> 732

<212> DNA

<213> B.fragilis

<400> 2969

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gcacgttcca	atccggatgg	aagtatttgt	ttgcatgccc	ggcatgtgcg	ttttgttcat	660
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<210> 2970

<211> 2304

<212> DNA

<213> B.fragilis

<400> 2970

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gaaatgatac	aaaaggcgaa	tgaagctctt	cggcaggtag	atatacgta	ggctgaggca	2280
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<210> 2971

<211> 960

<212> DNA

<213> B.fragilis

<400> 2971

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<210> 2972

<211> 618

<212> DNA

<213> B.fragilis

<400> 2972

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aagaaagagc	cggatacaagt	gacaacaccc	gcttcggttt	cggaaattaa	aattcccgag	180
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cagtccgacc	tgaagcggt	attggagagc	atgggacagg	aatatgggtg	cacatttact	300
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<210> 2973

<211> 825

<212> DNA

<213> B.fragilis

<400> 2973

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gccattcggt	ttatcaaata	aatgcctaag	tggattcccg	gaaaacagaa	cggtaaagcc	780
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<210> 2974

<211> 903

<212> DNA

<213> B.fragilis

<400> 2974

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<210> 2975

<211> 828

<212> DNA

<213> B. fragilis

<400> 2975

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<210> 2976

<211> 861

<212> DNA

<213> B. fragilis

<400> 2976

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<210> 2977

<211> 1962

<212> DNA

<213> B. fragilis

<400> 2977

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<210> 2978

<211> 600

<212> DNA

<213> B.fragilis

<400> 2978

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<210> 2979

<211> 498

<212> DNA

<213> B.fragilis

<400> 2979

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aatgcattga	atattacgga	atgctctcat	aagtcggtta	attcctgcca	ggtttccgca	180
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<210> 2980

<211> 4557

<212> DNA

<213> B.fragilis

<400> 2980

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<210> 2981

<211> 228

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (58), (74)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2981

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tttcaaaaag	cgggtgcaaa	gggaaaagg	gttaatttta	aaactgccaa	agtttttggg	180
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<210> 2982

<211> 906

<212> DNA

<213> B.fragilis

<400> 2982

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tgtaatcgg	gacaaaagaa	agatggaaac	atggaaaaag	aaactgtatt	gaagattgag	180
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<210> 2983
 <211> 387
 <212> DNA
 <213> B.fragilis

<400> 2983

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gaatcgctc	ttttgcaagg	ctccgtgccc	ccaagggatg	ccgagatacc	cacctcttcc	240
aataaccggt	atataggaca	agaaaaggct	atcggatttc	ccatagccat	ctccattaag	300
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<210> 2984

<211> 1002

<212> DNA

<213> B.fragilis

<400> 2984

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<210> 2985

<211> 771

<212> DNA

<213> B.fragilis

<400> 2985

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gatgaaatga	agaaagaaga	taccggcttg	cgggcagaga	ctttaaagca	tgccgtcgac	180
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<210> 2986

<211> 2181
 <212> DNA
 <213> B.fragilis

<400> 2986

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<210> 2987
 <211> 1611
 <212> DNA
 <213> B.fragilis

<400> 2987

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cattcttctc	cttttaacaa	cgcttcgacc	cgtagccact	ctcccctgat	cgccgaatgg	240
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gtgcctgctg	gagtcatttt	ccggctgatt	gttttttcgga	agtccggaaa	taactatgtc	420
ttccagtcgg	ttgccgatta	cgctccaat	ggtaggggca	ctcctgtact	caaacaaggg	480
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acagagaaat	attatcggtt	tttgtttgga	acaaatggac	acacagtttc	cgacgcagct	1560
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<210> 2988

<211> 222

<212> DNA

<213> B.fragilis

<400> 2988

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ttaattatca	gtcattttatc	tatcctcctt	gcattttagt	cgagagagtaa	aaatagtgtt	180
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<210> 2989

<211> 330

<212> DNA

<213> B.fragilis

<400> 2989

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ggaaccatgc	gtatggttgt	acttagggcc	gtgctcggac	tgaatgccgc	cgtattattc	180
gtgttggtgg	ccaccacatt	ggtcgaaggg	ccgatcttcc	atgatgtgga	gtttccccct	240
tgctttacat	atacaccctg	gcaattgggtg	atcgtattgc	ttggaaatcc	ggtaggactg	300
atggtaattg	tcagtttgca	caacttctga				330

<210> 2990

<211> 375

<212> DNA

<213> B.fragilis

<400> 2990

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tcggacatat	tgaaaacggt	attggaacct	acaatgaacg	aactgattat	tctgggaggt	300
attgtcgttg	taagaaccat	attatcggtg	ttcctcaaca	aagaaatcaa	agaattggaa	360
acagaaaata	actaa					375

<210> 2991

<211> 1296

<212> DNA

<213> B.fragilis

<400> 2991

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agatgcagca	gtatcttcgg	atatcagttc	agcgagatag	tccgttcgct	gatgagcgtt	180
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gacaaactca	acacattgct	tataaacgct	ttggtttcta	caggcgagtt	gaaggaaatt	420
gaggaatacg	atgttgactt	tgaccatcag	ttccttgaaa	cggagaagta	tgatgcaaaa	480
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<210> 2992

<211> 231

<212> DNA

<213> B.fragilis

<400> 2992

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cgtgcagaca	atgtgtatga	tgataccaaa	aagaaatctg	ccggcaacaa	aaagtcaaag	180
gagaagaagc	tcaaggagat	agatgaagta	gtaaaagagg	atcttgagta	a	231

<210> 2993

<211> 2064

<212> DNA

<213> B.fragilis

<400> 2993

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aatctgctga	aataataaac	ccaaagtatt	atcagcatta	tcggactagc	tgtaggaatc	180
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acggaaggga	gttgggaggg	ctgcaaagat	acgatccgga	aaatgaaaga	agaagatttt	1980
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<210> 2994

<211> 252

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (24)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 2994

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ctgagaaact	cacacctttt	ggaggaattt	tttcaatcat	ggagaaattt	gactccatgc	180
tttcacccgt	tatcgactca	acactgggtc	agagatgcag	cagtatcttc	ggatatcagt	240
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<210> 2995

<211> 2514

<212> DNA

<213> B.fragilis

<400> 2995

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<210> 2996

<211> 258

<212> DNA

<213> B.fragilis

<400> 2996

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gaaagagcag	atgctcccgc	tgcccattta	aattggcacc	ttaccatttt	tctgcacta	180
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<210> 2997

<211> 447

<212> DNA

<213> B.fragilis

<400> 2997

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caaggaatga	cagatccggg	cagagccggc	catagggcat	atatgtcgtc	ggccatggag	360
atggaggcta	aggtaaaaga	ggtagaagca	gggtatctcg	aaagaagaaa	acactttgca	420
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<210> 2998

<211> 1371

<212> DNA

<213> B.fragilis

<400> 2998

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cgcacgaac	acttcatgac	tacgttcggt	cggacatca	ttttgctcga	tatgaacttc	180
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<210> 2999

<211> 1488

<212> DNA

<213> B. fragilis

<400> 2999

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<210> 3000

<211> 462

<212> DNA

<213> B.fragilis

<400> 3000

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aagcgaatca	aaacagtaga	aataaatcat	ttaataaatt	acaagtatgg	caaaagcaag	240
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gagaccctca	gccagtatag	cggtatctca	ggcaggtgca	ggggtatcca	caaccatgga	420
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<210> 3001

<211> 225

<212> DNA

<213> B.fragilis

<400> 3001

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gtaaaggaca	tcctagttct	tatggaactt	ggaaaacacc	tcggacgggg	agtgaagca	180
aagcgaatta	aaaacagtag	aaatcattta	ataaattacg	attag		225

<210> 3002

<211> 639

<212> DNA

<213> B.fragilis

<400> 3002

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<210> 3003

<211> 246

<212> DNA

<213> B.fragilis

<400> 3003

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gaaaaagtgc	ttaaagacaa	agttcccgtg	cagcaaaccg	gaacctacag	cgaagccacc	180
aagaaagaag	tgcgcgacgc	agtaaaagag	ctcaatccgg	acatgagcgg	attggatagg	240
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<210> 3004

<211> 1305

<212> DNA

<213> B.fragilis

<400> 3004

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gcatttgtcg	ctttccttgt	ttacgtcatc	attctgtcgg	ccgggccg	caagctccgc	180
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gatgtggaag	gattgatata	gcctatttctc	accattaaag	taaacacccg	tgaagcggga	300
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aatccgcaac	aatatgaaat	taccggagga	ttagagcccg	gagattatgt	cgttacaaca	1260
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<210> 3005

<211> 1290

<212> DNA

<213> B.fragilis

<400> 3005

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gtgggcatcc	tgctgatcgc	tacaggcggt	catctctatt	ccatccagat	gaaattggca	180
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<210> 3006

<211> 1254

<212> DNA

<213> B.fragilis

<400> 3006

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gttttattat	ctccagatca	gtgggattcc	acaaaaggaa	aggatgatcaa	tggctctaac	180
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<210> 3007

<211> 633

<212> DNA

<213> B.fragilis

<400> 3007

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<210> 3008

<211> 378

<212> DNA

<213> B.fragilis

<400> 3008

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<210> 3009

<211> 690

<212> DNA

<213> B.fragilis

<400> 3009

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<210> 3010

<211> 2949

<212> DNA

<213> B.fragilis

<400> 3010

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<211> 183

<212> DNA

<213> B.fragilis

<400> 3011

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<211> 315

<212> DNA

<213> B.fragilis

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<211> 3165

<212> DNA

<213> B.fragilis

<400> 3013

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<210> 3014

<211> 186

<212> DNA

<213> B.fragilis

<400> 3014

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<211> 237

<212> DNA

<213> B.fragilis

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ctgaaaatgt	ttctgagttt	ttttattttc	agaacaaaag	aaaaagtgtg	tgaatgtaat	180
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<210> 3016
 <211> 753
 <212> DNA
 <213> B.fragilis

<400> 3016

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<210> 3017
 <211> 1176
 <212> DNA
 <213> B.fragilis

<400> 3017

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<210> 3018
 <211> 297
 <212> DNA
 <213> B.fragilis

<400> 3018

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<210> 3019
 <211> 1224
 <212> DNA
 <213> B.fragilis

<400> 3019

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 <212> DNA
 <213> B.fragilis

<400> 3020

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<210> 3021
 <211> 876
 <212> DNA
 <213> B.fragilis

<400> 3021

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<210> 3022

<211> 258

<212> DNA

<213> B.fragilis

<400> 3022

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<210> 3023

<211> 1194

<212> DNA

<213> B.fragilis

<400> 3023

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ctctggctgg	aaccccggat	caatatattc	aaagacagaa	gttatcgggc	agaccttcag	1140
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<210> 3024

<211> 432

<212> DNA

<213> B.fragilis

<400> 3024

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gttaataaac	cagtggcggg	ttatctgaag	gagaaccgta	aacgaaattg	tggcattgta	360
ttcattgatt	ttatagaag	ttcggggagg	caaaaattag	tggaaatct	cattggagggt	420
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<210> 3025
 <211> 555
 <212> DNA
 <213> B.fragilis

<400> 3025

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tcattgtatta	aagatgatat	ggatgcttgt	gccggatata	tgacatctta	tttcagctat	180
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gtgaaattaa	aagaaattac	cgatggcagc	ggaatctgcc	gacctgtaga	cgacctgttg	480
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<210> 3026
 <211> 1698
 <212> DNA
 <213> B.fragilis

<400> 3026

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ccgggaattg	ataaagggtg	tcagaaaagg	gaattgattg	atgctatcag	cattgctttt	180
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ttctatcata	taacagggtac	catcactaca	ctgggtgcca	agagcattga	agatgctatc	1620
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aacaatataa	atatgtaa					1698

<210> 3027
 <211> 1176
 <212> DNA
 <213> B.fragilis

<400> 3027

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cttttaatat	cggggcttat	taacaggcag	gcggaatgta	ttcggattga	tccttatgcc	180
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gcttatcact	actggttggt	gacgaaagat	atttcgcgat	ttgatgcaga	ttggcacgag	360
actatgaagc	tggtagtgca	gacctttaaa	gagcaacaac	gcaaacaagg	tttggggcca	420
tacagtttta	cgcgtgattg	tgaccgccc	actgattcac	aaattaataa	cggatgggggt	480
gcgccggtaa	aaccgggtgg	tttgatcggt	tcctctttcc	gcccttcgga	cgatgctact	540
caatacggct	tccttattcc	ttccaatatg	tttgagtggt	tgatcattac	gcagttggca	600
gagatagaac	gtgaggttta	tgataatcct	ccctttgcgg	aagaatgtac	tgcattggcg	660
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gaaggtgtgg	gaggcccca	tgtgggggtg	aactacattt	ggccgatgag	tatcattatg	960
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<210> 3028

<211> 189

<212> DNA

<213> B.fragilis

<400> 3028

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tttctgccgg	caaagaacga	actctttgca	actacgttat	tcacttccta	tgggcaaaaa	180
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<210> 3029

<211> 624

<212> DNA

<213> B.fragilis

<400> 3029

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ggtatcacag	gattctattc	catgttcgat	gtgggaataa	accgcagggc	atattatgga	420
gatgccgcgg	ccgcgggtgt	cacgtatgga	tacaactgga	ttctgtcacg	tcgttggaac	480
cttgaggtat	caggcgggtg	gggtgtggca	cgctacaggt	tgggtgcgcta	ccaaccggga	540
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<210> 3030

<211> 1131

<212> DNA

<213> B.fragilis

<400> 3030

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cgcttgagag	gtcttgactc	cgttctgctg	gtcgatctgg	ctgtcgacct	gacaggggtg	180

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cgggaagagta	ggctgaaggc	actgaataag	gggaaaacat	tcgaaattct	gcttcgggag	1080
tattttccga	aactccgtcg	ggtgtcatgc	cgtattagat	acgtaaaata	a	1131

<210> 3031

<211> 582

<212> DNA

<213> B.fragilis

<400> 3031

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agtatgttcg	gcgaggggaa	gccttatgcc	catatgggtg	gagttactat	tgggacaggt	120
ataggttcgg	gtgttatcat	taatcatcgg	ttgtattgtg	gtcaatatat	gggggctggt	180
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aatgtgaaaa	taattacttc	atatttgaag	gatgctagct	tattaggagc	ttccgctttg	540
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<210> 3032

<211> 1146

<212> DNA

<213> B.fragilis

<400> 3032

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aactttatgc	cggagagtgt	agggggattt	accattgacg	gacattgtgg	catgacgttg	1080
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caatag

1146

<210> 3033

<211> 186

<212> DNA

<213> B.fragilis

<400> 3033

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aaggaaaatg	tttttgagag	tctgaataat	atgttattca	cttttttgcc	cataggaagt	180
gaataa						186

<210> 3034

<211> 1446

<212> DNA

<213> B.fragilis

<400> 3034

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cggtaa						1446

<210> 3035

<211> 873

<212> DNA

<213> B.fragilis

<400> 3035

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ggtcttaaag	tcttgagata	tggtattttg	gctgaaacgg	aaaacaacgg	ttttttgtca	840
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<210> 3036

<211> 1170

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (1026)

<223> Identity of nucleotide sequences at the above locations are unknown.

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<210> 3037

<211> 2148

<212> DNA

<213> B.fragilis

<400> 3037

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<211> 1464

<212> DNA

<213> B. fragilis

<400> 3038

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<210> 3039

<211> 570

<212> DNA

<213> B.fragilis

<400> 3039

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<210> 3040

<211> 543

<212> DNA

<213> B.fragilis

<400> 3040

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<210> 3041

<211> 192

<212> DNA

<213> B.fragilis

<400> 3041

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<210> 3042

<211> 1656

<212> DNA

<213> B.fragilis

<400> 3042

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<210> 3043

<211> 786

<212> DNA

<213> B.fragilis

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<211> 1599

<212> DNA

<213> B.fragilis

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<211> 225

<212> DNA

<213> B.fragilis

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<210> 3046

<211> 207

<212> DNA

<213> B.fragilis

<400> 3046

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<210> 3047

<211> 234

<212> DNA

<213> B.fragilis

<400> 3047

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<210> 3048

<211> 1611

<212> DNA

<213> B.fragilis

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<210> 3049

<211> 189

<212> DNA

<213> B.fragilis

<400> 3049

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aaacaatatt cagaccgaga acaaggcaaa ataataaccg gatcaagtaa tccgcttttt 180
cccaaatag 189

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<210> 3050

<211> 201

<212> DNA

<213> B.fragilis

<400> 3050

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tatatcccgg tagctttcca gtgtctccag acgttcgcat ctctccagtg ccttgtcgag 180
cagttccttt ccgtcgtttg a 201

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<210> 3051

<211> 324

<212> DNA

<213> B.fragilis

<400> 3051

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gtcattatac gccattctta tggctttgaa acgctgtacg ctacttagc cgcgtattac 180
accacagaag gtcaaaaagt cgacagaggg gctgtaatcg cgtttgccgg aagcacggga 240
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<210> 3052

<211> 417

<212> DNA

<213> B.fragilis

<400> 3052

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aaaccggatg	actataagta	catcgacctg	tataaggagt	atgaaaggat	gcgctgccag	300
ggtgataaag	tgacgtattg	tgttgcgggt	ctttccaacc	ggcacggcgt	ttccgaacgc	360
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<210> 3053

<211> 327

<212> DNA

<213> B.fragilis

<400> 3053

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atagagagga	tcaaccgggt	gtaccggctg	atccggatgg	aaaggaccgg	aagcctggac	180
gaactggcct	ccttgctgcg	ggtaagcagg	cggacaatca	acaattatct	ggaggagctc	240
cgctgatgg	gtgccgagat	caagtttagc	agaaggcaaa	accccatatt	atttcaagaa	300
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<210> 3054

<211> 1239

<212> DNA

<213> B.fragilis

<400> 3054

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<210> 3055

<211> 189

<212> DNA

<213> B.fragilis

<400> 3055

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agtaatgaaa	aggcatctgt	gtatggagaa	gaaaaagtcc	cggataatag	tccggaacct	180
gaaaagtaa						189

<210> 3056
 <211> 408
 <212> DNA
 <213> B.fragilis

<400> 3056						
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atccggattc	atcccataac	cggcaaacgc	agttttccatt	caggtattga	catgggcgtg	300
gagctggcag	cccccggttt	acgccaccgc	tcggggaacg	gtttctttcg	cgagaaggaa	360
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<210> 3057
 <211> 210
 <212> DNA
 <213> B.fragilis

<400> 3057						
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<210> 3058
 <211> 894
 <212> DNA
 <213> B.fragilis

<400> 3058						
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<210> 3059
 <211> 816
 <212> DNA
 <213> B.fragilis

<400> 3059						
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<210> 3060

<211> 999

<212> DNA

<213> B.fragilis

<400> 3060

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atcaacgcca	ccaagtcggc	ggcaagcaag	aatatccgga	aggtaaagggt	gacaatcaag	960
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<210> 3061

<211> 294

<212> DNA

<213> B.fragilis

<400> 3061

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accgttgac	tgacggaaga	tctgaaatgg	gagttacgga	cgttcgcttc	ggaccatcgc	180
tgcaggggag	tcaagacact	gcttgaaacg	atgatagaat	gtttcgtcag	ggaagacggt	240
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<210> 3062

<211> 624

<212> DNA

<213> B.fragilis

<400> 3062

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tacaggctga	ctgatatcca	ttggcccggc	ctggcagttg	acctgaacca	tgacggtata	180

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tgctcaggaa	tccatggcat	ccagggttact	ttgcgtgctg	atgtggattc	cttcagtctg	420
cagtcaaatt	gcagcaggat	atttcccgca	tacaatgacc	gggatgacgt	tttcctggcc	480
aacatcaaag	atatcagcct	ggttgtcctg	tcatatgatg	ccgcgtcatt	cagaatcggc	540
gtgcattgca	cactccctta	cgaccgtcct	gacggaacac	aggagctgaa	cgagaattat	600
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<210> 3063

<211> 783

<212> DNA

<213> B.fragilis

<400> 3063

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accctgataa	accgcacaca	gatcggttat	acgacggatt	tcatgcggtt	ctacatccag	480
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<210> 3064

<211> 405

<212> DNA

<213> B.fragilis

<400> 3064

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atcagctaca	acgcacatcc	ggcccagagt	tatgtgcgta	taggcggaga	agctcccgca	360
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<210> 3065

<211> 354

<212> DNA

<213> B.fragilis

<400> 3065

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<210> 3066

<211> 195

<212> DNA
<213> B.fragilis

<220>
<221> unsure
<222> (42)
<223> Identity of nucleotide sequences at the above locations are unknown.

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aaacttacac cgccaaataa tcccgaataa cccataaac gtcgggggttc aatagcatgt 180
attcaaatgc cataa 195

<210> 3067
<211> 198
<212> DNA
<213> B.fragilis

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tgcgctgtag cttttcccat gaaagaaata cggtatttta ctaagtattc tacttttaaag 180
agtatattac taatatag 198

<210> 3068
<211> 1182
<212> DNA
<213> B.fragilis

<400> 3068
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<210> 3069
<211> 426
<212> DNA
<213> B.fragilis

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gtcgaatgatc	ttttcaaact	ccgtcttgta	gacaacgcgg	agttacagcg	catcgccata	240
ggcacgggtcc	gcctgggtatt	tggcaaaaac	ggcatttgcg	tccgggttgt	tgaccaggaa	300
cagggcacgg	gcacgggtttt	cctgaaggga	aaggcctgtc	tagcttggtc	acgaaatatg	360
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<210> 3070

<211> 363

<212> DNA

<213> B.fragilis

<400> 3070

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gactgccgga	aagttccctt	gaaaaaagtc	gcctttacgc	attttgcgaa	taaacgttcg	180
gggaccgtac	ttatgttcag	cagctcaaaa	gtggaagcaa	actcttgccg	atttacgcaa	240
tcatcaaaca	atcctgccgg	aattgataaa	atattaggta	tagccgagaa	ggtagaatta	300
aactttacgg	ccgaggtaca	tcctctgaat	gtatttgctg	gaatagaatt	aagggctgca	360
ttaa						363

<210> 3071

<211> 693

<212> DNA

<213> B.fragilis

<400> 3071

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aaaatatcat	atacacaac	agaataacca	aacttatttaa	ttatgaaaaa	gctattatta	120
accactctgt	tgatcttcgg	aacagccatc	gttcacggac	aggacaaaaat	gcaattttca	180
ataataggag	gatatgaaca	cttcaaaaaa	gaaaatccac	acaaccaaac	tgccggatat	240
ggtttaggtt	gcgagttcaa	gtattatttc	tataacagac	tctatgctct	ggccaacttt	300
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gacttctcaa	tgcaactggag	aactcgcgaa	tataaagggtg	gagccggaat	gggaatcgat	420
ttactaaaga	cacagagaca	taatataatac	acgcaagcca	catttggtatt	agccaaactc	480
aaacagtcgt	ttccgggttat	ccacagttat	agaccaacag	tggaaaatggg	aactaaaaat	540
acctacttac	tcggatcacgc	cacctccatc	tcaataggat	atgattatcg	ggtttagtaaa	600
tctttcagta	taggcctcaa	ttatacaggc	tggtaggtg	cagacgtcgc	atacaggaaac	660
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<210> 3072

<211> 534

<212> DNA

<213> B.fragilis

<400> 3072

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ggaggcattc	ttttggaaca	tgaaaaagga	ttgttgggac	attcggatgc	cgatgtattg	180
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ttccctgaca	atgccgggtga	atataagaat	atagacagca	agattttatt	aaagaaaaca	300
gtggagctga	ttgctgcca	aggctatcag	atcggttaata	tcgacgccac	tatctgtgca	360
gagcgcccta	aactgaaagc	ccatatccct	tcgatgcagc	aagtgcctgc	cgaagtgatg	420
gggatcgatg	cagatgatat	ttccattaaa	gccactacca	ccgagaaact	tggttttacc	480
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<210> 3073

<211> 786

<212> DNA

<213> B. fragilis

<400> 3073

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cagatgtcac	aattttcagt	cgaggagttg	gaacggctgt	taaagggtgaa	tcctaagatt	180
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aacggaaaat	tggctacggg	agtgggttat	actaagatgt	cacggggcga	gttgactcgt	660
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tttgaattta	acgaacagct	ttcggacgag	acaaaatatg	tatttacaaa	cggaaaaaaca	780
gaatga						786

<210> 3074

<211> 1434

<212> DNA

<213> B. fragilis

<400> 3074

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gaaggcggat	acagtcgtcc	ttcatacaat	cgtgaagggtg	gcgaccgtcc	ttatcgtccg	180
agattttaata	gtaatagtga	agatcgtcct	cagcgttctt	atgggtgatcg	tccgcaacgt	240
ccttcatata	atcgtgaagg	tggcgaccgt	ccctatcgctc	cgcgttttta	cagcgagggt	300
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aaacttgacc	gtgtattctt	tgccggactg	actaaaaaag	gattgcgccg	tgggtgagtgg	1380
cgttatctta	cagaacagga	agttaacttc	ctccggatgg	gatcttttga	ataa	1434

<210> 3075

<211> 627

<212> DNA

<213> B. fragilis

<400> 3075

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gccatcgccc	gccgccagcg	tcagcagttg	cctgtcgact	ctaccgatct	gccggtctgc	120
cgtcgggtatg	tggatgccat	ccgcgacagg	ggagtgaaga	ttgtggctat	gggaaaaatgg	180

gataatttcg	tcactgtgtc	atgtaacgac	agtgccgtga	taggcgaaat	tgccgcactg	240
ccttttgtgc	gtgctaccga	aaagatatgg	gttgccccgt	cgaaacctgc	agcggaagat	300
aaacgggact	ccctggcgaa	cagtccgctc	aagagtgaga	actactacag	tcctgccctc	360
cggcagatag	aaatcagtta	cggcgaaaaa	ttgcatgaag	ccggatttaa	gggacaaggt	420
atgaccattg	ccgtgatcga	tgccggatat	cataacgtgg	acaagataga	ggctatgaaa	480
aacatccgca	tcctgagtac	gaaagatttc	gtgaaaccgg	gaagcgatat	ctacgccaaa	540
ggatcgacg	gaatggccgt	tctctcctgc	atggcgatga	atgatcctta	tttaatggtg	600
ggtacgggtc	ccgaagcctc	ttattga				627

<210> 3076

<211> 1014

<212> DNA

<213> B.fragilis

<400> 3076

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gcattcctca	ccctgctggg	agttattgta	ctgggttcag	ttgtcgggtt	cttcatgctc	120
cgaaagggtc	cggaaatcat	tcagggacaa	gctgaggtaa	ctgaataccg	cgtctcaagc	180
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<210> 3077

<211> 558

<212> DNA

<213> B.fragilis

<400> 3077

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acattgatag	gtccgtgtgt	gcaaactctat	actccacatc	atccaatgga	ctatctggaa	360
cgccgtaacc	ccaaagagta	cgcttatccg	gtaactattg	gcgaagactg	ttggattggg	420
ggcggggctg	tcgtttgtcc	cggcgtgacg	ataggtgacc	gttgtgtgat	cggagccggc	480
agtgtggtga	caaaggatat	accggacgat	tgtgtggcgg	taggtaatcc	tgcacgtggt	540
attaggtgtc	ggatgtaa					558

<210> 3078

<211> 417

<212> DNA

<213> B.fragilis

<400> 3078

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gaagcacaga	atgttgattg	tatttttctg	tatcaggaag	aaggagcatg	gtatgcttat	120
gaacattctg	ctttttattg	ttattctctt	ctgggcatac	ttgatatcga	ctggttgcct	180

tgccccgatg	gagtctcttc	cgggcagaaa	acaatcaggg	tacgtgtttc	cgaaccggat	240
aagtttttgt	gtactccttt	gttacgtctg	atgcggaagc	gtaaaacaga	atatgttggt	300
ttgtgtaaga	tttcgtgtgg	agggttttat	tattggcggg	aacagcaaca	aatgaaatth	360
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<210> 3079

<211> 1437

<212> DNA

<213> B.fragilis

<400> 3079

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ccgattgacg	gccgatatag	aggcaaggct	gaagcttttag	ctgcataatt	ttctgaatat	180
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<210> 3080

<211> 1929

<212> DNA

<213> B.fragilis

<400> 3080

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aaacatcaaa	agacaggatt	cccgggtgta	gcccataata	aagaggagtt	gatgaaagta	1920
tatgattaa						1929

<210> 3081

<211> 1035

<212> DNA

<213> B.fragilis

<400> 3081

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agtagcgagg	tgttgaaacct	gcacatggct	gccacttgcc	tgcattatgg	tcaggaagcc	180
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aagaaggctc	acgacttggg	ttattcctgc	gagttctatc	tggacgcaaa	agataaaaaa	660
tacattgacg	aatgtggtgc	ggccaacttc	tttggtatta	aagacaatac	ctacatcact	720
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gagaatggca	agtcgtatgt	gatttcgaaa	gatggaaagc	cgggaccggt	ttgtgagaag	960
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actattgttg	aataa					1035

<210> 3082

<211> 807

<212> DNA

<213> B.fragilis

<400> 3082

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gagcgtgaga	acggaatgct	tcaccccgaa	gcattggata	agtcgcgctt	ttggctgggt	360
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gcctgttcac	accgggggat	taccaatatc	attcgtgccg	tcgagaatgc	ctttccggga	600
ttgggactca	aactggtgat	gggaggcttt	catattcaca	atgcggaaga	agagaagttc	660

aatgtgattt	cggcctttct	gggtatgaaa	cttcccaaac	gtctgggagt	ctgtcactgt	720
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<210> 3083

<211> 849

<212> DNA

<213> B.fragilis

<400> 3083

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ggtattcata	tcattgacct	ccacaaaaca	gttgcaaaag	ttgatgaagc	cgcagaggct	180
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aaacaggtag	tggctgaaaa	agctgcatct	gtaaactatc	cttatgttat	cgaacgttgg	300
ccgggtggta	tgttgactaa	cttccttact	atccgtaagg	cagtgaagaa	gatgactact	360
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aaccgttttg	gtattcctgt	atgttggtatc	gttgatacta	actcggatcc	tacaaacatt	600
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<210> 3084

<211> 282

<212> DNA

<213> B.fragilis

<400> 3084

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ggacacacaa	gtatatatct	aaaatgttat	tacatagtcc	tatcctttta	ctcaaccaca	120
aaagggatag	agcagaaaag	agaaataaaa	aaaatagcta	aaagcatttg	ccttcttcaa	180
aaagaatcag	tatatattgaa	gtataagaag	actcagatat	ggcaaaccac	aaattaccgg	240
gaatacccca	agctgaacaa	gctctgttgt	atgccaaact	ga		282

<210> 3085

<211> 720

<212> DNA

<213> B.fragilis

<400> 3085

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tatgcacaac	aaaacgccga	acttccgaaa	ccggacaaaa	acgaaaagag	agtggctctt	180
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agcggtagca	acaaagcttt	gaatccggcc	tataccaaag	atgggtgtgca	tcccacttcc	660
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<210> 3086

<211> 483

<212> DNA

<213> B.fragilis

<400> 3086

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ggagcaaaag	ttgcgaaact	gttgagagga	aagtataaac	caaactttac	tcctcatgta	180
gactgcggtg	ataacgttat	tatcatcaat	gcagacaaaag	ttaaattaag	tggttaacaaa	240
tggaatgaca	gagttttattt	gtcttatact	ggctacccgg	gtggtcagag	agaaatgact	300
cctgctcggt	tgatcgccaa	acctaacggt	gaagacagat	tactgagaaa	agtagtgaag	360
ggcatgcttc	cgaagaacag	actgggagct	aagttgctga	gcaatatgta	tgtttacgca	420
ggtagcgaac	acaaacacga	tgctcagaac	ccgaaagcaa	ttgatataaa	ctcacttaaa	480
taa						483

<210> 3087

<211> 759

<212> DNA

<213> B.fragilis

<400> 3087

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tttttcaaga	acgataatcc	gattgtactc	gaattggggt	gcggaactgg	cgaatatacc	180
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tatgaacaac	agtggctcga	tgcgggttta	agcattaagt	acatcaaatt	cctgttgccg	660
caggaaggag	aactcagaga	accggatatt	gaaattgaac	tcgattcgta	ccggagctat	720
aatcgtagca	agcggagcgg	attgcagaca	tctaaataa			759

<210> 3088

<211> 1461

<212> DNA

<213> B.fragilis

<400> 3088

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ttgctgataa	gcggagagaa	aataaatgct	gcacactacc	aaaagaaagc	agcctttacc	180
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ttccgcaccg	ataccgaaa	tgtatatgca	ggagccatca	ccctcaccca	accgctatat	480
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<210> 3089

<211> 1263

<212> DNA

<213> B.fragilis

<400> 3089

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agtggactgc	tgtactataa	aagtatgctt	ttggccaata	ctgccgtgtc	attggatatg	480
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cagaccggct	tctattttct	gaccacttgc	tgggtatacc	gttggcagat	tatcaagagc	1200
cgtaaacacg	tcatagacaa	atacaaagaa	atgaaaaata	gaggggaaaga	attctttttc	1260
taa						1263

<210> 3090

<211> 2046

<212> DNA

<213> B.fragilis

<400> 3090

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tgtaaacaga	gcacatacaa	taataaaaaca	catgttatga	aaagaaaaat	gatgtcccta	120
ttactcgcat	tggcggtaat	aagcgggaag	agcgtgtacg	ctaaagtgat	tgacgtaatg	180
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caaaccgcga	tgacattgaa	aatgggtacg	aacgggggat	gggccggaac	aattaaaatg	2040
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<210> 3091

<211> 1383

<212> DNA

<213> B.fragilis

<400> 3091

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gatttttagca	ttgtaagcgc	gatgttcttc	caaagggtata	tccttacgct	gggcaacgta	1380
tga						1383

<210> 3092

<211> 675

<212> DNA

<213> B.fragilis

<400> 3092

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<210> 3093

<211> 873

<212> DNA

<213> B.fragilis

<400> 3093

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aacgagaaga	ggatgcaaag	caacgggagac	gatatcatat	cgttcggaag	gtatcgcgga	360
cactatctgc	acgaaatcct	gaaagtgcgt	ccggcctacc	tgagctggat	agcctacaaa	420
tacacacca	aaatcccca	gcaggagcgt	ttttagacca	tagcgcaagt	atatcactct	480
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<210> 3094

<211> 501

<212> DNA

<213> B.fragilis

<400> 3094

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<210> 3095

<211> 1236

<212> DNA

<213> B.fragilis

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<210> 3096

<211> 1008

<212> DNA

<213> B.fragilis

<400> 3096

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<211> 819

<212> DNA

<213> B.fragilis

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 <212> DNA
 <213> B.fragilis

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 ccacaagcta tctgccgtaa acagcgccca acaagacaaa aaaagactgc aggcaacaag 240
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<210> 3101
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 <212> DNA
 <213> B.fragilis

<400> 3101
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<210> 3104
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<210> 3105

<211> 567

<212> DNA

<213> B.fragilis

<400> 3105

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<210> 3106

<211> 462

<212> DNA

<213> B.fragilis

<400> 3106

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<210> 3107

<211> 243

<212> DNA

<213> B.fragilis

<400> 3107

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<211> 1773

<212> DNA

<213> B.fragilis

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 <212> DNA
 <213> B.fragilis

<400> 3109

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 <213> B.fragilis

<400> 3110

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<210> 3111
 <211> 1296

<212> DNA

<213> B.fragilis

<400> 3111

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gttcaacacc	tcgctactgc	ttatttcgag	ttcgcccat	gcgcggttac	ggaaattgat	1260
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<210> 3112

<211> 906

<212> DNA

<213> B.fragilis

<400> 3112

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gctaattgatt	tggatggttt	tattagtatt	cctgataatg	cgacagggtg	tcaacaaatt	180
tctactcgta	gtagtcttga	caatttgaag	attgtatatc	atggtaagggt	ctatgaaact	240
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atggataatt	tgagtgaac	ccggccta	cttaggacat	ttattcatgg	gaatggagtc	360
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ccacaacttg	cgcctataga	tccggagaat	aatgaagtgg	aaatttattt	gtacgaagat	540
ccatattatt	taggagattt	gtttagtttg	cagcgtaata	gaagtgcacg	tgactacaac	600
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<210> 3113

<211> 1044

<212> DNA

<213> B.fragilis

<400> 3113

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tatagcagtg	ttaacgaagc	acgtacagct	atgcaggaag	gcaaaatcta	cggatttttt	180

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tataccaaca	actcctacct	gattgccggc	tcattattgt	tcaaggatat	gaagatgatg	300
tccgaacttg	cctcaggagc	tgccgcccgt	tcagttttat	atgccaaggg	agcaacggaa	360
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atattcatgg	taacagtatt	ttccatcggg	gtggaaatca	aggaccgcac	ggcccgggag	540
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<210> 3114

<211> 222

<212> DNA

<213> B.fragilis

<400> 3114

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aaagaagcca	atgaaataat	agctttctgt	accggaaagc	tgacaaaggc	agatcaggaa	180
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<210> 3115

<211> 1413

<212> DNA

<213> B.fragilis

<400> 3115

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aactttatcg	caactgaatga	cggttctaca	ataaataatg	tgcaggtcgt	agtcgatctg	180
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<210> 3116

<211> 375
 <212> DNA
 <213> B.fragilis

<400> 3116
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<210> 3117
 <211> 2241
 <212> DNA
 <213> B.fragilis

<400> 3117
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<210> 3118

<211> 360
 <212> DNA
 <213> B.fragilis

<400> 3118
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<210> 3119
 <211> 618
 <212> DNA
 <213> B.fragilis

<400> 3119
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 gatttctata tccggttaa 618

<210> 3120
 <211> 282
 <212> DNA
 <213> B.fragilis

<400> 3120
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 ttacttgat catcccgaga aattcttgtc ggaaaaagcc atcgcccgcc gccagcgtca 180
 gcagttgcct gtgactcta ccgatctgcc ggtctgccgt cgggtatgtg atgccatccg 240
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<210> 3121
 <211> 1932
 <212> DNA
 <213> B.fragilis

<400> 3121
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 acgtttgaaa tcaagaatgg acatttttat cgtaacggaa agataacgcc tgttctttcc 180
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 aaaggatagg ggttaaatac ggtggctacc tatgtgttct ggaatcttca tgagccggag 300
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cagccggata	tgaccagtta	tgattatgat	gctcctatta	gcgaggcagg	ctgggtaact	1080
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gctactctgc	agattctggg	tgaaaatatg	ggacgcatta	attatggtag	cgagatcgta	1500
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ggtatcgttt	ttgtgaacgg	tgttaatatc	ggacgttact	ggaaagtagg	tcctcagcaa	1800
acactctatg	ttccgggtgt	atggctgaag	aagggtgaaa	ataagattgt	tatctttgaa	1860
caattgaatg	aaaccctca	aacagaagtg	aaaacagtga	aaacaccggt	gttgatgaag	1920
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<210> 3122

<211> 195

<212> DNA

<213> B.fragilis

<400> 3122

aaatgtccat	tcttgatttc	aaacgtagat	ttcgactgcg	agaacacgca	caatggcatg	60
acagccaaca	acaaaagtaa	aaaaatcgat	tttgttcgca	tggtagtatt	aataggttta	120
ttgatgaagc	aaagtaaaga	aataaatcac	tttcccgcga	aatttccctt	tgttttcttt	180
aaaaaaataa	cttga					195

<210> 3123

<211> 318

<212> DNA

<213> B.fragilis

<400> 3123

ttacaacgtt	cccacgcttt	tttatatacg	aaagattctt	tcgagggaaac	cgggagggat	60
agaaggaagg	aaaagagcat	gaaagcagca	agaaatagcg	gaatttgtat	gaaactggat	120
gattttaccg	gagttttatc	gttagagcat	ctggatgtta	atacaatggg	atatctgtat	180
agtgagcagg	gtgagttaat	agggaaaatt	cactcaacaa	aatcttctgc	tacttttaca	240
ttacctcaaa	aaggtatgta	tgtgcttgta	attcactgtt	tatcctatcc	ggtggaagtt	300
aggagagtca	tttattga					318

<210> 3124

<211> 996

<212> DNA

<213> B.fragilis

<400> 3124

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tctacatggg	ttactccgcc	attggctctt	tttctaggat	tagcttttgc	gttgacttgt	180
ggacaggccc	atccgaaatt	taacaaaaag	acatctaaat	atctattaca	atattctgtt	240
gtaggattag	ggtttgggat	gaattttacat	tcagctcttg	cttccggtaa	agaagggaatg	300
gagtttacga	ttgtttcagt	aattggcact	ctgatttttag	gatggttcat	tgggcgtaag	360

tttttaaagg	tagatcgtaa	cacctcttat	ctcatcagtt	caggaactgc	tatctgtggt	420
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gcattggcga	ctatatattat	attgaatgct	cttgcgcttt	ttatatattcc	ggtgatcgga	540
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ttggctcgca	aaacattgac	tatcactatg	ttctttattg	gagcttctct	ctcattggat	900
gttgtgaagt	ccgtaggcat	caaacccttg	atacaaggag	tgcttctgtg	ggtagtgatc	960
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<210> 3125

<211> 432

<212> DNA

<213> B.fragilis

<400> 3125

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aagaaaatag	gaacagacat	gaatgataaa	gagatcgtat	tctcaaaatc	aataaaggcc	120
ggtaaacgta	tatattacct	ggacgttaaa	aagaaccgca	aagatgaaat	gtttcttgcc	180
attaccgaaa	gcaagaaagt	tgtgatgggc	gaaggagatg	actctcaagt	aagctttgaa	240
aagcacaana	ttttcttgta	taaagaggat	tttggtaaat	tcatggccgg	actcgaacaa	300
gctatcaact	tcatcaatca	gaatcaagaa	tatacagaag	attccgaatc	ggaggaaaaa	360
gtcgaacctg	aaagtgaacc	ggagactaca	gttttgata	gcgaaatcaa	gattgacatt	420
gattttgaat	aa					432

<210> 3126

<211> 423

<212> DNA

<213> B.fragilis

<400> 3126

tatactatgt	taaagactat	tttgtctatc	tccggcaaac	cgggggttgta	taagcttatt	60
tgcgagggta	aaaatatggt	gattgtagaa	acaattgatg	cagctaagaa	acgtttccct	120
gcttatggta	acgaaaaaat	tatctctctg	gcagatatag	caatgtacac	aaacgattca	180
gaagtgcctt	tacgtgacgt	gttgcgttca	ataaaagaaa	aagaaaatgc	agctatcgct	240
tctatagatg	tgaagaaagc	tacttctgag	caattacgtg	aatatttggc	tgagggttttg	300
cctgactttg	atcgtgacag	agtatatacc	aatgatatac	agaaattgat	tttgtggtat	360
aatatcttag	tctctaaccg	aattacagac	tttggtgaag	agactgccgt	tgaagcagaa	420
taa						423

<210> 3127

<211> 825

<212> DNA

<213> B.fragilis

<400> 3127

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gacaccata	agagattctt	cgctcttctg	gaatcccaga	acatccgtgt	aaatcgcttc	180
agggcagact	gcggttcctg	ctcgaaggaa	atcgctcagt	agatagagaa	gcattgcaaa	240
catttctaca	tccgtgccaa	ccgatgcagt	tcgctctaca	atgacatctt	tgctctgaga	300
ggatggaaga	cggaggagat	taacggcatc	cagttcgaac	tcaattccat	tctcgttgag	360
aaatgggaag	gcaagtgcga	tcgtcttctc	atccagagac	aaagacgcaa	cagtggcgac	420
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tcgacaaggg	acattggtga	attctacaat	ctgcgtggcg	gcaaggaacg	tatctttgac	540
gacatgaaca	acggattcgg	ttggagcagg	ctccccaagt	cattcatggc	ggagaatact	600
gtctttcttc	tgcttactgc	attgatacac	aatttctaca	agaccatcat	gagcaggctt	660

gacaccaagg	cttttgggct	caagaaaacg	agtcgcataa	aggcttttgt	cttcagattc	720
atctccgtac	ctgccaaagt	gatcatgact	gcaaggcaat	acgtgctgaa	tatctacaca	780
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<210> 3128

<211> 2607

<212> DNA

<213> B.fragilis

<400> 3128

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ctgtacggag	tgatgaaggt	aggcgaaaat	gtgactaact	ttatctttca	gaagttagga	180
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tactccaagg	aaatgggcca	tgagtttgtt	tcattggaac	atcttttctg	ggctttactg	360
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cgtggtgcc	tcagtgaatt	gagaaaagga	gaaaaggtga	cctctcagtc	cagtgaagat	480
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cgtacaaaa	acaatcctat	attaataggt	gaaccgggta	ccggtaaaa	agctattggt	660
gagggattgg	cacaccgtat	tcttcggggg	gatgttcctg	aaaacctgaa	aaataaacag	720
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gagattcgct	atggcaaaat	gcaggaaactg	cataaggaaa	ttgaagatac	ccagaaaaaa	1560
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ccggaattcg	gtgcacgtcc	tgtaaaaagg	gctattcaga	gatattttact	caacgatcta	2520
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<210> 3129

<211> 279

<212> DNA

<213> B.fragilis

<400> 3129

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attcagggct	ttttaattat	ctttgttgca	atccgtcgga	acctgaagag	tcagtgttac	120
gaggaatatt	acacaaaaag	aacaaaagcg	tttttaagat	attattctgt	acttgaaatc	180
tggacaattt	cactattcag	gaataatgta	acgaacgctc	atgctctgct	gtatatgcaa	240
atatatagta	tcgagcgtgg	gttgttgtac	attatttga			279

<210> 3130

<211> 1296

<212> DNA

<213> B.fragilis

<400> 3130

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agatgcagca	gtatcttcgg	atatcagttc	agcgagatag	tcggttcgct	gatgagcgtt	180
tatttctgtg	gcggtctcatg	cgtggaagat	gtaacgtcac	aactgatgcg	ccatctctcg	240
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acacagggaa	acatctccta	tacttccgac	caaggcaaga	cctatgattt	caatactgca	360
gacaaactca	acacattgct	tataaacgct	ttggtttcta	caggcgagtt	gaaggaaatt	420
gaggaatacg	atgttgactt	tgaccatcag	ttccttgaaa	cggagaagta	tgatgcaaaa	480
ccgacctaca	aaaagttcct	cggctacagg	cctggcggtat	atgttatcgg	tgacaagata	540
gtctatatcg	agaacagcga	tggtaacacg	aatgtgcgtt	ttcatcaggc	agacacccat	600
aagagattct	tcgctcttct	ggaatcccag	aacatccgtg	taaatcgctt	cagggcagac	660
tgcggttcct	gctcgaagga	aatcgtcagt	gagatagaga	agcattgcaa	acatttctac	720
atccgtgccca	accgatgcag	ttcgctctac	aatgacatct	ttgctctgag	aggatggaag	780
acggaggaga	ttaacggcat	ccagttcgaa	ctcaattcca	ttctcgttga	gaaatgggaa	840
ggcaagtgtc	atcgtcttgt	catccagaga	caaagacgca	acagtggcga	ccttgacctg	900
tgggaaggcg	aatacactta	ccgttgtatt	ctgaccaacg	attacaagtc	atcgacaagg	960
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cctgccaaagt	ggatcatgac	tgcaaggcaa	tacgtgctga	atatctacac	agagaaccga	1260
gcttatgcaa	aacccttcaa	aacagaattc	ggataa			1296

<210> 3131

<211> 570

<212> DNA

<213> B.fragilis

<400> 3131

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aacaatatgc	ctaaccctaa	ggtaagtcaa	tcggcatatt	tattatttga	agaatcatca	120
aaaatgaacg	taggagataa	agccccagaa	ttgctgggta	tcaatgaaaa	gggtgaagag	180
gtacgcctca	acaactataa	aggaagaaaa	attgtccttt	atttctaccc	taaagataac	240
acttccggct	gtacggccca	agcctgtagc	cttcgggata	attacgcaga	gctacgtaaa	300
gccggatatg	aagtgatcgg	tgtaagtgtg	gacaatgaaa	agtcacacca	gaaatttatt	360
gagaaaaaca	atctgccatt	caccctgatt	gccgataccg	ataaaaaatt	ggtagaacia	420
tttggagtat	ggggagaaaa	aaagctatat	ggccgtgctt	atatgggtac	tttacgcaca	480
actttcctta	tcaatgaaga	gggagttatc	gaacggatca	tcggacccaa	agaggtaaag	540
accaaagaac	acgcttcaca	aattttataa				570

<210> 3132

<211> 1224

<212> DNA

<213> B.fragilis

<400> 3132

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ggtgtaggta	ccgtttagac	acacaaagt	gcacaaaatg	ccgatgtatt	tactgatatc	120
atgatcgcca	gccgcacgaa	gtcaaaatgt	gacgacatcg	tgaaagccat	cggcaatccc	180
aacataaaaa	cagcccaagt	ggatgctgat	aatgtggacg	aactggtagc	actcttcaac	240
gatttttaac	cggaaatggg	cattaacgtt	gcattgcctt	atcaggacct	gaccatcatg	300
gaagcctgcc	taaaagcagg	agtcaactac	ctggataccg	ctaattatga	gcctaaagat	360
gaagctcact	ttgagtacag	ttggcaatgg	gcctatcatg	aacgtttcaa	agaagccggc	420
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aaagatctga	catatccaaa	catcgggtccc	cgtgattcat	atctgttgta	tcacgaagaa	720
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gaaatagatt	acaatggaca	aaagatcggt	ccgctgcaat	tcctgaaagc	cgtgttacct	900
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tttaatccgg	atccgtttat	ggaacaattg	aataaacaag	gcttgccttg	gcacgaagta	1200
ttcgatggaa	atttggaact	gtaa				1224

<210> 3133

<211> 318

<212> DNA

<213> B.fragilis

<400> 3133

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atttttaaaag	tttaccacac	ggcctttgtt	atctgtcaac	cgtccgtcat	cgagtacctg	180
caacaagata	ttaaatacat	ccggatgtgc	tttctcgatt	tcatcaaaca	atactacaga	240
ataggggtttg	cgacggatcg	cctctgtcaa	ttgtccgcct	tcgtcatatc	ctacatatcc	300
cggaggcgct	ccaactaa					318

<210> 3134

<211> 732

<212> DNA

<213> B.fragilis

<400> 3134

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agttcaaata	tgcaattgtg	ggagttttat	caagtcatac	agccggaatt	gctggcaaaa	180
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gccatggcaa	acgaaggata	tgatacctgc	cctttggagg	gctttgacag	caaacaaatg	600
aagaaactat	tgaagttgcc	tcatggggcc	gaagtgaaca	tggatgatgc	ctgtggaata	660
cgggatggaa	acaaaggaat	ctggggtgaa	cggggcagag	taccgtttga	tgaagtttat	720
catagagttt	aa					732

<210> 3135

<211> 633

<212> DNA

<213> *B. fragilis*

<400> 3135

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tcaaagaaag	tagtggccac	tgatcctggt	attcgtaaag	agttgtgtga	tttagtagga	180
gaggagggtt	tttctggcgg	caaattaaat	aagactttac	tggccacata	tcttttcgct	240
tcttcgacgc	atgcttctca	ggttaatgga	atcatacatc	cgaggggtta	ggagcatttc	300
aggcaatgga	gttcacacaa	agagtgtctg	gatataatag	gtatggaatc	ggcaattctg	360
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ctcagggtag	aacgtgcggt	gcggcgtgac	aatgcttcat	gcgagcagat	tatgcagcgt	480
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gatggtgaaa	agccgttgat	accacagatt	ttagagctaa	ttgcttttct	atatcaaaaag	600
attcattacc	tttgctccgc	aaaaaataac	taa			633

<210> 3136

<211> 252

<212> DNA

<213> *B. fragilis*

<400> 3136

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gtgttgcaaa	aagaaaacaa	gcaaaactct	aatatgacat	ggcaaaaata	caaattaaat	120
ctgagaaact	cacacctttt	ggaggaattt	tttcaatcat	ggagaaattt	gactccatgc	180
tttcaccctg	tatcgactca	acactgggtc	agagatgcag	cagtatcttc	ggatatcagt	240
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<210> 3137

<211> 351

<212> DNA

<213> *B. fragilis*

<400> 3137

aaaactaata	aaactgatta	ttttatgaac	ctattaactg	tattttttca	agctcctgct	60
gctggccctg	acggtagttt	gatgtggatc	atgctgatag	caatgtttgt	tatcatgtat	120
ttcttcatga	ttcgtccgca	gaacaagaag	cagaaagaga	tcgctaattt	ccgcaaatct	180
ctccagggtta	accagaatgt	gattactgct	ggtggcattc	atggtgtgat	taaggaaatc	240
aatgatgatt	acattgttct	tgaaatcgct	tctaattgtaa	aaattaagat	agataagaac	300
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<210> 3138

<211> 537

<212> DNA

<213> *B. fragilis*

<400> 3138

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gcaagaatag	ataaatggat	gtgggcagtc	cgcactcttca	aaactcgcac	aatcgctgca	180
gaagcctgca	agaaaggacg	aatcagcatc	aatgggtcgt	ttgtaaaagc	agctcgtatg	240
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ctgcaagcca	ttgaaaaacg	ggtgggtgca	aaacttgtat	ctgaaatgat	ggaaaatgta	360
acaacccttg	atcaatatga	acttctggag	atgagtaaaa	tcagcggttt	tattgatcgg	420
gcacgaggta	cgggacgtcc	aactaaaaaa	gatcgccgga	gcattgagga	atttaccact	480
cccgaattta	tggatgactt	cgattttgat	ttcgacttgc	aagaagataa	tgaataa	537

<210> 3139

<211> 1272

<212> DNA

<213> B.fragilis

<400> 3139

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ataccgttac	aaacagctat	gctgccccac	gatggtaata	tcaccaatgc	attggtgaca	180
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ctggcaatct	acgaagcagc	tgtgcttttc	catatatata	cgcccatgca	ggtctccatc	360
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gtagccgcaa	cgatcctgca	agtagtgctc	aatctatatc	tcacagtgtg	ccggattggg	480
aaaacaacag	ccttgcaagc	acagatgatc	ggcggaacaa	gcaactcgat	aggtatggct	540
atcgctccgt	tggtaatcag	ttatctgata	tttcacggaa	cacctttgca	cgacatcggt	600
acgaagcagt	tcattattcc	actgatcata	ttgattctga	tcatgctgat	tattactctt	660
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ggtattatcc	ctcttttaca	aggaatcttt	gccgatgtga	tgggtggcaa	ctggcttttg	1200
acatggctgt	tggtcatcgc	cggggaagct	tacattttgt	attatggcct	aaatggatag	1260
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<210> 3140

<211> 690

<212> DNA

<213> B.fragilis

<400> 3140

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tatatctcta	aagcaatgat	ggaattaaat	ccgaatctat	ttatgaagga	cctttatata	180
ggtaaagtag	cagaacattt	gaactctgtc	caagtgtct	ctacacatga	taataaggta	240
cgtgaagaaa	tggccaaaga	tatccgttca	ttggtgcaat	catccaaata	cgaattattg	300
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gtgaaagaac	tgattatggg	aatgaacgga	gcatcttctc	taaaatttgt	atatatggaa	420
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ggaaattcgg	acaatcaaaa	agacatggca	gagttaaagc	gaacctataa	tttaaatctg	600
atagatacga	attataaaga	agaactaagt	accttaaacy	acaaattaaa	aagaattgac	660
caagggctca	aaaacatgaa	tataaagtag				690

<210> 3141

<211> 570

<212> DNA

<213> B.fragilis

<400> 3141

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acagatggtc	ggtatggctt	taccactacc	ctatctgtca	aaggaagaca	aatgatcttg	180
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gaaaacattc	cattagaaaa	cgtattaatc	attgtagatg	acttagcact	tccctttggg	300
accttacgcc	tgaaaagcaa	aggcagtgat	gccggtcata	acggattaaa	acacatcgca	360
actatcttgg	gcacccaaaa	ctatgcgcgc	ttgagatttg	gtatcggtaa	tgattttcca	420
agaggcggac	aaatagactt	tgtattgggg	catttcacgg	acgaagactg	gaaaacaatg	480

gatgaacggtt tggaaacagc cggagaaatc gccaaaagct tctgtttggc aggtatcgac 540
atcacgatga atcagttcaa caaaaaataa 570

<210> 3142
<211> 1086
<212> DNA
<213> B.fragilis

<400> 3142
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caggctgcca tggacaagat agagaaaagc ttcggtaaag gttctatcat gaaaatgggt 180
gaagaagtgg tagaacaagt agaagtaatt ccaacagggt cgatagcact gaatgctgca 240
ttaggcgtag gcggttatcc ccgtggaaga atcattgaaa tttatgggtcc ggaatcatct 300
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ggtggtaatt cattaaaatt ctatgcttcc gtacgtttgg atatccgagg ttcacagcag 780
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tcgggagaaa tcattgacct gggagcggat ttgggaatta tcaagaaaag cggttcatgg 960
tatagctaca acgacacaaa attgggcca aattggcgatg cagcaaaaca atgtatcgcc 1020
gacaatccag aacttgctga agaactggaa ggactgatct ttgaaaagtt gagagagcac 1080
aagtaa 1086

<210> 3143
<211> 600
<212> DNA
<213> B.fragilis

<400> 3143
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atgcgtgaac tgcaagagat tgatctctcg gaactggtaa cttatatagt acttgatgca 180
ggtagggcag taggcgataa tcaaattcaa atattaatgg tatatgataa agattcgggt 240
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agtcagttcg gagaattttc ttttgccagt gtacctgtg aggaaatggg atctcgtgaa 360
gaattatatt tggatctgct gagtatcggt ttagattctg ccgatgtgga acggctgatt 420
ttggtttctt tcaatgaaga atatggtgat aaggtaatgg aacggttaaa aggtgtcaag 480
aataaggaaa ccattcagtt ccgatgaat gaaccggagg agagtattga aggatatcaa 540
tgggaaatgt tggcatatcc cgtgatgcaa gcattgggaa tcagggggaga agagttgtaa 600

<210> 3144
<211> 705
<212> DNA
<213> B.fragilis

<400> 3144
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gaggcagggt atgaaataac cgtcgcaagc cccaagggag gcaatgttcc tgttgatccg 180
gagagtctaa aaccgatgat gttggacaaa attattggga tgatcttgaa 240
ttcaggcgtg aattgcagca tgcaaaaagt ttagccgaag tttccggaca gctatttgac 300
tgtgtttatt tggcagggtg tcatggtgag atgtatgatt ttcctgacga tactgtattg 360
caggcgatta ttgaaaagca ttatgagagt gataaagcag tagcggccat ctgtcatggt 420

gtaagcgggc	ttttgaatgt	taaactgtcc	ggaggagagt	atcttatcaa	agataaaaag	480
atcacaggct	tttcttggtt	tgaagaaagt	ttggccggga	gaaaaaagga	agtacctttc	540
gaccttgagg	ctgcactcga	aaagagagga	gccgactacg	agaaggcatt	gattccgatg	600
acctcgaaag	tagtggtgga	ctgtaacctg	ataacgggac	aaaacccgtt	cagttcaaaa	660
gaaatggcag	aagttgtaat	gcggcgagttg	agtcgcgaaa	agtaa		705

<210> 3145

<211> 864

<212> DNA

<213> B.fragilis

<400> 3145

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aacagtatga	caatgaaaaa	agtattactt	tcaatttgta	tggtagtgct	agtattcgct	120
atgtcatctt	gcggttcgac	aaaagaagcc	gcttctttat	catctttaaa	tggatgaatg	180
aatattattg	aagtgaatgg	ctcggccatt	gtgccggcag	aaaatcagga	attgccgttt	240
attggttttg	atacagctac	gggtaaagta	tatggtaata	gtggttgtaa	ccgtatgatg	300
ggatctatag	atctcaattc	aaaacccggt	actatcgata	tgagccgatt	ggggagtacc	360
cgtatggctt	gtccggatat	gacaacagaa	caaatgtgct	tgaatgcatt	gggacagggtg	420
aagagttata	aaaaactggg	taaacataat	atggctcttt	gcaacgcttc	caatcgctccg	480
gtagtcgttc	ttcagaagaa	agcttcggat	gtaaagttgt	ctgctttgaa	tggatgaatg	540
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aattttgacg	tgaagaagaa	gtccattcat	ggcaatgcgg	gatgtaattt	gattaatgga	660
ggatttgaaa	cagataagga	gaatccccgt	tccatttctt	tccctaattg	tatttctact	720
atgatggctt	gtcctgatat	ggaagtggaa	ggcaaagtga	tgaagctat	caacgagggtg	780
aagtcattcg	atgtgttatc	cggaggagggt	atcggatttt	atagtgcaga	cggaacactg	840
gtaatgggtac	ttgtgaaaaa	ataa				864

<210> 3146

<211> 591

<212> DNA

<213> B.fragilis

<400> 3146

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accgagagcc	aagaagaggt	gctgagaaat	tatttcagaa	caacggaagt	gcccggacat	180
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gctaccatat	tattgcttat	aggcattgga	tacgggattg	acaatttaag	caaaaatgtg	420
tgccacacca	ccccacaaga	tacattctcc	gatccggaag	aagcctaccg	gatgttacag	480
gcaactttac	tggagatttc	tgccaacctc	aactatggac	tcaatgaggt	gaaagaaagc	540
cagatagata	tgagaaaaat	acatcaagaa	gtaagaaatg	aaattaaata	a	591

<210> 3147

<211> 786

<212> DNA

<213> B.fragilis

<400> 3147

aaaaagtatc	gtatgaaaat	aaaaagactt	ttagtgttgg	ccgttctacc	catgctgtgt	60
cttgacagtga	atgcacagaa	ctccagtaaa	gacaatactc	ctaaaaaagg	agactttact	120
gtagcagcta	ctgttgagata	caatagttac	acaagtgtca	cagccccctc	ggggctgctg	180
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aactcggctg	acgagaatat	gggagagatt	cctaactatc	gtgccgtagc	cgatgctcag	420
tcgttcgcct	ataatgtgtc	agcaggtgtt	gatcgttatt	tcaacatcaa	gcgtgttctt	480

aacctgatgt	ggtatacagg	tattcgcgta	ggttttgcct	acggtgaaaa	tgaaatgaag	540
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ttgactatcg	gtgtcgacta	ctttgttctt	cctgcactct	atatcggtgc	gcagattgat	660
ccgtttgcat	atacgtataa	taagactacg	tataaccac	aagcaggtct	tggcgatctg	720
tcggcagaca	gccacaacta	cagtgtgctg	gccgctccga	catttaagat	cggttttaag	780
ttttga						786

<210> 3148

<211> 216

<212> DNA

<213> B.fragilis

<400> 3148

catgcgaata	gcattttgaa	atcattcaag	tacttcagac	ttcgattttg	ttacgacatc	60
cgtcaacaat	cctttattgt	gatcaaaaata	tcctctaaat	acaaaatgcg	tgaattgtac	120
tatcgcaaaa	tctacacgtt	tttatcctat	ctgttcctt	tggactataa	aaaagcgctt	180
ctccgcattt	taaaaatata	aatgacaga	ctgtaa			216

<210> 3149

<211> 1023

<212> DNA

<213> B.fragilis

<400> 3149

ataaagccta	tgttcgaacg	taggaacata	aagtatattt	atttaaaatt	atcaagaaag	60
attaaggact	ttctgcttag	tgataagagc	agagagttct	taattttttt	atttttcttt	120
tttattgcag	gcggattttg	gttgcttcaa	acgttaaaca	atgattatga	agcagaattt	180
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gataagggtat	tgagggcatt	tccatctaaa	gttcagggtta	cgtttcaagt	tggattaagt	840
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aaattgggta	ctgataaata	tactgtaaaa	ttgaaatctc	ttccacgtgg	agtaagtcac	960
gtgcgaatcc	atccggaaca	ggttgatttt	ttgatagaac	aactctcttc	tgatggcaat	1020
taa						1023

<210> 3150

<211> 342

<212> DNA

<213> B.fragilis

<400> 3150

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acaaaattcc	tcttgttacg	tcttaaggat	ataaacattg	acaagaacga	acacatggat	120
accgaaagtt	ttaaaagaga	gtttctaccc	tatcatcgca	agctgtactg	cgtggcctat	180
cggctatttg	agaatgctgc	tgatgcggaa	gacttagtgc	aagaagccta	tctgaagctg	240
tgggataaac	gggaaggact	gtcggttatc	agcaatcctg	aagcattcag	tgtcacttta	300
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<210> 3151

<211> 597

<212> DNA

<213> B.fragilis

<400> 3151

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agaacattac	ttgcacaaaa	cagccatttt	gcaagttcct	cctcccccg	ctccctatca	120
cccgatgaag	aaacggattt	cataacaaca	catttcccct	taaagcagtt	atgtaaattg	180
acacccggaa	tgaagtttat	gttcatcccc	gatagtagtg	atgaattcgt	ccccatatta	240
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tataccggtt	cggaagaaac	tgtacatgaa	acgtatatcg	gcaagattta	tacttcccga	360
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gatttgtgtg	atcaaaatcc	gtatgccagc	atccctgccc	tcgtctatct	gcaagatgta	480
aacaaggcca	aggaattatt	aattgggaaa	acgctctata	cgcgctactac	catagcaaaa	540
acagacgatg	ccaacagcta	ttcaggatat	agagaagtca	atatcgcgaa	agggttaa	597

<210> 3152

<211> 843

<212> DNA

<213> B.fragilis

<400> 3152

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ggggtctctg	cgggagcttg	caacgggctt	tcgtatatgt	ctcgccagcg	tggaacgggcc	180
aagtacagta	acatcgactt	gttagagaag	taccattata	tcggattgaa	gcatttgctc	240
aagaaacgga	atatcctgga	cttcgatctt	ctctttacgg	aatttcccga	acatattctt	300
ccttacgatt	atcaggcata	ctttgattcg	ccggaacgat	atgtgatggt	gactaccaat	360
tgctgaccg	gggaagccga	ttactttgag	gaaaaaaagg	ataagaaccg	tgtcatcgac	420
attgtccgtg	cttccagcag	ccttcctttc	gtttgtccca	tagcttatgt	agacggcatc	480
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tatcggaata	atgtagttgt	cctcaccggg	aatcatgggt	atcggaagaa	gaacaaagac	600
atccgtattc	ctccttttgt	ctatcgtaaa	taccccaaga	tgcggaagac	gttaagtcgg	660
cgttgtgctg	tgtacaatga	acagttagag	atggtagagc	gtatggaaga	ggagggggac	720
atccttgtca	tccgtcctca	gaagcctgtt	gtagtggacc	gcattgaacg	tgatattcaa	780
aaactgaccg	atctctatga	ggaaggatac	gaatgtgcga	agcggcagct	tgaaaccctc	840
tga						843

<210> 3153

<211> 666

<212> DNA

<213> B.fragilis

<400> 3153

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atggaacctg	cagattttca	agcggaaaaa	agaataaact	attttccaaa	tgcattttct	180
ttaccaaatc	cgatgttcaa	aaccagagag	tctatccagt	ccaaatacat	cggacagtct	240
gtttatcctc	aaaagacaat	tcgagtcaag	caaacagagt	tattacgtta	taccccatca	300
catatcaaa	atgtacaacc	tgaaaaggca	ggaacatcag	ctacactcct	tctgacagat	360
attcatggaa	acacatatca	agtcaaagta	gatttgaaat	atgatccgat	ccttaaaaaa	420
gaagatttca	tagaggacct	tttcggattc	tccgacatac	gaaagaaata	tccaaacatt	480
agtgaatcca	actggcttat	gcttgccaaa	ggagaagtaa	aaccaggcat	gacaaccgaa	540
gaatgcaaat	tagcaatagg	agaaccgata	gaaatcagag	ttcggacaga	ctcccgcctt	600
gaaacctggg	tatatagagg	aaagatattg	gaatttgaaa	atggcatctt	gctccgggct	660
aaataa						666

<210> 3154

<211> 345

<212> DNA

<213> B.fragilis

<400> 3154

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ctgtcccgc	aaagcgtgga	gctatcagcc	gcccagatg	tttttcaacc	ggacaatctg	120
gaagcacgtg	aaggggtacg	acaaataaaa	gatattattg	cccacttacc	cgaacaacag	180
caacgaatca	taaatatgcg	cgatattaaa	ggttgttcat	acgaagagat	agaacaagtc	240
actggattaa	actctataaa	cgtccgtgtg	ctactgtcac	gggcaagaaa	aaagatacgt	300
gaagaattta	ataaatggaa	taattatgaa	agtccaagaa	attga		345

<210> 3155

<211> 1629

<212> DNA

<213> B.fragilis

<400> 3155

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gcaaagcaat	tagagtctgt	tgccaacatg	aataatgcga	atgcggatgc	taagaaagcc	180
attacagcag	ctgaagttgc	aataaaagag	gctgaagccg	cctatcaaaa	agcacaagcc	240
gaattggcgc	aggcacatgc	agatcaacaa	aaaatcctat	tgagagaaagc	tcaggctgct	300
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gctgctttag	aatctgctaa	agctgctctt	attgctgctt	tggtcaagtc	ggatcaggcc	420
aataagacaa	gaattacaac	tttggttaggt	aaagctaattg	ggttgctggc	aacgatcaat	480
gccgatagac	agagtttgat	tgatgcaaaa	gacagttgg	caagattgaa	agctggttta	540
gtgtcagttg	agttgagcaa	tcaacaaaca	atagctggag	aggagaaaaa	taaagctggt	600
gctcaggcat	taattgcaga	atatgagaag	tatagtacta	aagataaggc	tgatgctgag	660
aaagcagctc	aggaagctaa	tgctaaaattg	actgctcttg	gccagactcg	agatgaaaaa	720
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gcttatacat	tacaaactat	agctgatggc	ttggctgatt	atgatcagtt	gatttttagtc	1440
cagaaacaag	ctattgctgc	tgctgatgaa	aatatagcta	atgccgcttc	agttgtatca	1500
aaggaacagg	ctattgctaa	tcaggagaaa	accattgctg	accttgaaaa	tagtttggct	1560
gtaaatgaac	ctattttacaa	tgattattta	gctcagatca	aagcttttagt	aggtgactct	1620
gcagaataa						1629

<210> 3156

<211> 909

<212> DNA

<213> B.fragilis

<400> 3156

gcctttatat	ttatgtctga	ttttcgtctg	aaagtatttt	taagcgttgc	taagaacctc	60
agtttacta	aggcttcaca	agagctgttt	gtcagtcagc	ctgccataac	taaacaatatt	120
caggaattag	agacttggtt	tcaggttcgg	ttattcgatc	ggcagggaaa	taagattttct	180
ttgacagaag	cgggtaagct	tttgcaggag	catagtgaaa	agatatttga	ggactataag	240
cgggttggaa	acgaaatgca	tttgctgcac	aacgaatata	taggcgattt	gaaattgggt	300
gccagtacta	ccattttctca	atatgtgctt	cctccttttg	ttgctaattt	tatagccaag	360
ttccctcaag	taaatctttc	attattgaat	ggggaattcca	gagagataga	ggctgctttg	420
caggagcatc	gcattgattt	agggctggta	gagggcattt	gtcgcttgcc	caatcttaga	480
tatactacat	ttttacagga	tgaattagtg	gcagttgttc	atacaggtag	caagctttca	540

ttgcctgatg	agataactcc	ggaggatcta	tccagaattc	cgcttgtact	cagggagaga	600
ggttcgggca	cactggatgt	ttttgagaga	gctttgtccg	aacataatat	gaaattatca	660
tccttgaatg	tacttttata	tttaggcagt	acagagagta	tcaagttgtt	tttagaacat	720
acagattgta	tccgaattgt	ttctatccgt	tctatcagtc	gtgaattact	ttcaggtact	780
tttcgtgtta	ttgagattaa	aggtatgcc	atgctacgtg	agttctgttt	tgcacaaccg	840
caaggacagg	agagtgggtt	atcacaagtt	ttgatgcagt	ttgctatgca	tcataacaaa	900
aagttatag						909

<210> 3157

<211> 1017

<212> DNA

<213> B.fragilis

<400> 3157

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aattcggttaa	taacagtatt	aattaagatt	atgattaaca	gagttcttat	tcgtctaaag	120
atcatacaga	tagtgtatgc	ttactatcaa	aacggcagca	aaaatttaga	ctcagcggag	180
aaagagttgt	tcttttagcct	ctcaaaggct	tatgatctgt	ataactat	gctgatgctt	240
atgattgctt	tgacggaata	tgacacaaaa	cgcacgcaga	cagcgaaagc	taaactagcg	300
ccgactaaag	aagagttgta	tcctaactgt	aagtttgtgg	aaaataaatt	tggttgacaa	360
ctcgaagtga	ataaacaatt	gagcgaattt	atagctaata	agaaaaggac	ctgggctaata	420
gatcaggact	tcattaaaga	attatacgaa	aagattattg	catccgat	atacaaggag	480
tatatggctt	cttctgacaa	atcttatgaa	gcagatcgtg	aattatggag	aaaactctat	540
aaaactttcg	tttttaataa	tgattcgtta	gatcagggtg	tggaagatca	gagtttatat	600
tggaatgatg	ataaggagat	tgatcgatca	tttgtattga	agaccattaa	gcgttttgaa	660
gaaaaacagg	gagctaacca	accattgtta	cccagattca	aagatgacga	agaccaggag	720
tttgacgccc	gtttgttccg	tcgggccatt	ttaaatgccg	actattaccg	gcacttgatc	780
agtgaaaata	caaagaactg	ggatttggat	cgtgtagctt	tcattggatg	aattattatg	840
caatgtgcat	tagcagaaat	tcttagtttt	ccgaacattc	cggtcagcgt	ttcggttaaat	900
gagtatgtag	agattgctaa	actctatagt	acagtgaata	gcggtagctt	tatcaatggt	960
acattggacg	gaatagttaa	tcaattaaaa	aaagaaggta	agttgacaaa	aaactaa	1017

<210> 3158

<211> 609

<212> DNA

<213> B.fragilis

<400> 3158

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gaacgctctt	ctgaacaggc	aagagctttg	aaagaaattc	gtaacaacgg	tggtgtacct	120
tgcgactttt	acgggtggta	agaagtagtt	cacttcacag	tgaccaacga	aggacttcgt	180
aattttggtt	acactccgca	tatttatgta	gttgatttgg	ttattgatgg	caaaaaagta	240
aatgccattc	tgaaagatat	ccaattccac	ccggtaaaag	atactatcct	gcacgtagac	300
ttctatcaga	ttgacgaagc	taaacctatt	gtaatggaag	tacctgtaca	gcttgaagg	360
cttgctgaag	gtgtgaaagc	cggtggtaaa	ttggcattgc	agatgcgtaa	actgaaagt	420
aaagctttgt	ataatatcat	tccggagaaa	ctgactatta	atgtatctca	cctgggtctc	480
ggtaagacag	taaaagttgg	cgaactaagc	tatgaagggt	tagaattgct	gaatgcaaaa	540
gaagctgttg	tatgtgctgt	taagttgact	cgtgcagcaa	gaggtgcagc	tgctgcagcc	600
ggaaaaataa						609

<210> 3159

<211> 327

<212> DNA

<213> B.fragilis

<400> 3159

caggaggaat	tttgttacia	agaaagcgaa	aaaagaataa	gtaagatgaa	gatctttggc	60
gaaaaagatg	tacttttaaa	gactgaatta	aaaatagata	ctatgagtca	aaatgaaaca	120
acaaaattgg	acattattgt	agaagtatta	ggtgagagag	agccggagat	acgacgtttg	180

gttatcttgg	acgaccgggt	aaggatgttt	gccgaatcta	acgatgaaaa	tggtccgggc	240
atacctatcg	agttggtagc	ggagtgggct	acgctgctga	ataaatatta	tccgttggca	300
ttggaaaaac	ggaatatgat	gaattaa				327

<210> 3160

<211> 588

<212> DNA

<213> B.fragilis

<400> 3160

atttctaaat	ctatgaagcc	gaatcggaca	aaagaagaca	ttttactgct	ttcccaactt	60
cagcaaggag	ataaaaaagc	cttcaatact	ttgttcagaa	ggtattatcc	gatattatgc	120
gcttatgccc	accgttttgt	agacttggaa	gatgcggaag	aaatagttca	ggatgtaatg	180
ttgtggttat	gggagaatcg	agaaatctta	ttgatagaat	catcccttag	tcaatacttg	240
ttgaaaatga	tatatcaccg	ttcattaaac	cgcacgcac	aaaaggaggt	aaagtatcgt	300
gccgatacat	tattttatga	gaaaagccag	gcaatgattt	atgacgtgga	tttctatcag	360
attgaggagt	tgaccaaacc	gattcacacc	gcatagtggt	agttaccgga	atcttaccgg	420
gaagcgttta	tcatgcaccg	gttcagagat	atgagctaca	aagaaatcgc	acaaactctt	480
aacacctcta	ccaaaacagt	agattaccgc	atacaacagg	cactaaaatt	attacgtaaa	540
gaactcaaag	agttcctgtc	gttcgccttg	atatttctgg	cagcgtaa		588

<210> 3161

<211> 399

<212> DNA

<213> B.fragilis

<400> 3161

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tccgtattac	ttgaaaatgc	cggatttaaa	gatgcttacc	ggacgaaata	ccctaataccg	120
gttacacatc	cgggctttac	attcccgtct	gataatgaag	gagtgccggt	gcagaaactg	180
tcgtgggcac	ccgatgctga	cgaacgggat	cgtatcgact	ttattttattt	catgccggac	240
agggaaattga	aattaaaaga	tgtatcgggtg	gtaggtcctt	caaaatcgat	cgtcgcgtagt	300
gaacgtgtgg	aggagagtgg	ttaaagattcg	tttataactc	cgctaggcgt	atggccgaca	360
gaccataaaag	ccgtaatggc	tacttttttcc	ctgagataa			399

<210> 3162

<211> 1836

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (1787), (1788), (1807), (1809), (1811), (1812), (1815), (1823), (1824), (1829)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3162

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tcgcttttgg	tgacctcgaa	aaaaattcca	aaaactatgc	gactattcat	cctattccta	180
atttgcctta	tgagttttgt	gcatgcgaca	gacagcttcg	cacaaaaggt	ggaaatcagt	240
attgatgcac	agaatcaaac	tgtagagaaa	gttctgaaaag	aaatagaaaa	gcaatcgggc	300
tttggctttt	tctttaataa	caaacatgtc	aatctgaaaa	gagttgtttc	tgtttcgggt	360
gataaaaagta	atatatttta	agtactggat	aaaatctttg	aagggactga	cgtgaaatac	420
tccgttttgg	acaaaaagat	tattttgtct	actgaaatga	catcgaagca	acaacaagcg	480
gtgaaaatct	cgggaaaagt	agtcgatgct	aacgggagac	cggtgattgg	tgccagtatc	540
gttgagaaaag	ggaccaccaa	tggtacgggt	accaatttgc	agggtgattt	ctctctatcg	600
gtcagttcag	ataaggcagt	gatcgagatt	tcctacatcg	gataccagcc	tcaggaactg	660
aaggtcattg	caggaaaacc	attgaatgtg	acaatgaaag	aagatgccca	ggctttggaa	720
gaagttgttg	tggtagggtta	cggttcacag	aagaagggtga	atgtgattgg	ttcaattgct	780

gctgtggata	gcaaaaaact	tgaatccaga	actgcaccca	gtgtttcga	tatgctgacc	840
ggacaactct	ccggagtgac	gatcacacag	tcgagcggta	atccgggaca	agaccagggg	900
acgattcggg	tacgtggtgt	aggctctttc	ggagcgactc	ccgatccttt	ggtactgggtc	960
gatggacttc	ccggcagtc	gaatgatttg	aaccgcggag	atattgaaag	tatctctata	1020
ttgaaagatg	cctcgtcggc	cgccatttat	ggttcgcgtg	ctgcgaatgg	ggttgactgt	1080
gtaaaaacaa	aaggtggcca	gaaaggtaaa	gttaccgtaa	gttataacgg	atatgtaggc	1140
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aataaggcta	tgggtaagga	agttttattcg	gcggaggaga	ttcagaagta	taaggatgga	1260
tcagatccgt	ataattatcc	taatgaacat	tatctggata	aacttctggg	caacaaagga	1320
ctgcaaacgg	gtcatgaact	gaccgtgaac	ggaggaaatg	ataagacaca	gtatatgggt	1380
tctttcggct	atgtaaaaca	gaatgggtctg	atggaaacaca	atcactacga	ccgtttacaac	1440
ggcagagtga	atctgactac	agagttggct	aaaaaactga	cactgactac	ccgtttgggt	1500
ggagtcgttt	ctaaacggag	cgaaccttct	actccgggtg	gaatggactc	tgccggattt	1560
aaagctttct	caagtaatgc	acttcgtttt	cccggattat	gggcaactaa	attggaagac	1620
ggatcttacg	gcttaggacc	gaaggtactc	ggaacaccat	tggcatggct	ggacagcggc	1680
tctttttatc	atgaaaactt	ccataagttc	cgttctaata	tcgagttggc	attcacacct	1740
gtgaaaggct	taacgctgaa	agcgtcttca	ccacggggct	ggagttnncg	atcggcactc	1800
agtttctngng	nntcntatcc	atnnggggnc	tctatc			1836

<210> 3163

<211> 1158

<212> DNA

<213> B.fragilis

<400> 3163

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ttgagatatt	taaatgtaat	acttatgaac	aggaaaaact	acttattagc	tttcattctt	120
tgtgtgcaga	cgctgtttgt	ttctgcgcaa	gtctatccgg	tccgcgcaaa	gttgaccgat	180
gaaaagtctt	tttcaatgat	tcttttacct	gatccgtata	gttatacaat	ggtcgatgcc	240
cattacgcac	tttttgagtt	acagacagca	tgggtagcca	atagcattga	atctctgaat	300
ataaaaagggtg	tgctttgtac	cggtgatttg	gtggagcaaa	atgaaattcg	cattccggat	360
gggggtgaacg	gcaaccagac	aagtgaggag	caatggcgtg	ctgcttcgcg	tgcgtttgag	420
cgactggatg	gaaaattgcc	ttatgtgatt	tgtaccggta	atcatgatta	tggatatcag	480
aaagcggaaa	atcgttttgt	tcatttccct	gattactttc	ctgcccagag	aaactcctgt	540
tggcgcaaga	gcctgggttg	cgtaggcaac	aattatcagg	gtataccgac	actggaaaat	600
gctgcctatg	aattttataac	cgatacctgg	ggcaaaattc	tggttgtttc	tctggaattt	660
gctccacgtg	atgaggcttt	ggcgtgggct	aagaaagtgg	tcgatgctcc	ccgctataaa	720
gaccataaag	tgatattgct	gacacattca	tatctggcat	ggacaggaaa	agtcattgaa	780
agcgagaact	acaaagtgc	tcctgccaat	tatggaaaag	ctatttggga	taagttgggtc	840
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aaggataatg	tcagttttccg	gattgataaa	aatgcttcag	gcaagaatgt	tcctcagatg	960
atgtttaatg	cgcagactgc	cgataagcaa	tggtttcggta	acgggtggaga	cggatgggtg	1020
aggattatgg	aattcatgcc	tgatggaaaa	acgattaaaa	tcaaaacatt	ctctcctctc	1080
tttgcacttt	ctcctcttac	ttgtgataaa	tcgtggagaa	cagattctta	tgatcagttc	1140
gacattacga	tagagtaa					1158

<210> 3164

<211> 1017

<212> DNA

<213> B.fragilis

<400> 3164

attacaaata	tgaactacga	agatatagac	catttactgc	ctcgatattg	tgaaggactg	60
gctacggaag	aagaatgccg	gcaggtggaa	agctggatgg	aagaatcggg	agataaccga	120
aagatagtgg	atcaaatcaa	cactctttat	atagctgtag	atacgggtcaa	cgtaatgcgt	180
aaggtggata	cggaaaaagc	tctgaaaaag	gtcagtagca	gaatgatcgt	caggaaaaaca	240
acttggtggg	agtggatgca	gcgtgtcgct	gctatcttat	ttatcccgtt	gtccgttgct	300
tttctggtgc	aatatatgca	caatgggaaa	tctgctgtgt	gccagatgat	ggaaataaaa	360
accaatccgg	ggatgacaac	ctcgggtggta	ttgcccagata	gtacgggtgt	ctatctcaat	420

tcggagtcctt	ctttacgtta	tccttctgtt	tttgaaggcg	atatacgaaa	tgtcgaatta	480
aagggagaag	cttattttgc	ggtagcaaag	gatttgaaaa	agaagtttgt	agtttccgcc	540
ccgcattcat	cgcagataga	agtgcctggg	acacacttca	atgtggaggc	ttatgaagac	600
gagccggatg	tttcgacaac	attggtggaa	gggcaggtct	gctttcattt	tagtgataaa	660
gactatctgg	ccaagaaagt	ggttatgaaa	cccggacaaa	ggttgggtcta	cagttcgacc	720
aatgggtgatg	tacagttgta	cgcaacatcc	tgcctgtccg	aaaccgcctg	gaaagatggg	780
aagattatat	ttaataacac	tccgttggat	gtagcactga	ggatgctcga	gaagcgcttt	840
aatgtaacat	ttaaactaaa	gaatgcccg	ttgaagacta	atgcctttac	aggcacattt	900
actgaacagc	ggttggaaac	tattctggag	tattttaaaa	tctcgtccaa	gatacagtgg	960
agatatttgg	aaagtctcta	tattcgggat	gaacgaagta	taatagaagt	ttattga	1017

<210> 3165

<211> 291

<212> DNA

<213> B.fragilis

<400> 3165

agaaaatccc	ggagcatggg	aaaaagcggc	agcagttcga	accggagcgt	taccatctct	60
tcccagaaag	aggatatcta	ccagggaagg	gattttgcgg	acctggaacc	gggagagttc	120
atcggatccg	ccaccctg	caatgtcaga	tacttcaagg	tgatgctcgg	ggagttttaa	180
gaaaaggatg	aaaaaccgct	gcccgcagtc	cgggttctgg	aaccgggaga	aatatccggg	240
aattttgcc	ggatccttga	ggaggtacgc	tcccttttcc	catgtgaata	g	291

<210> 3166

<211> 306

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (142)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3166

gccccggtga	taggcatgct	tatgagcata	tccaccgcgc	agttcaccat	gcagaacaaa	60
gtgcctttcg	tatattttct	ggatgaaatg	acaacgggtca	acattaaaag	tttcgagtcg	120
ctgctttcgg	tcatgcgcga	anacaagggtc	gcctttgtac	tgcttacaca	gtccgggttca	180
aagctggaga	atctgtacgg	caagctcgac	cgttcatccg	tggaagccaa	tttcgggaatc	240
cagttcttcg	ggcgtaccaa	ggatgtggaa	gccttgaaat	attatccgca	gatgttcggg	300
aagtag						306

<210> 3167

<211> 651

<212> DNA

<213> B.fragilis

<400> 3167

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gaatgtatgg	atgaatatgc	ccgtaacttc	taccgtgaga	aaataaaatc	aggggatgac	120
ctgggtctgg	acggccgcgt	ggaaacggaa	cgccactata	agaatgatga	tccggaggtt	180
aaggccggca	gggcaaaggc	gggagataag	aagcccgggc	tccagcttca	tgtgcatgtg	240
atcgtttccc	gcatggacag	gacgcagacc	gtatcactct	ccccgctgtc	aaaaagcagg	300
ggaaaccggc	aggtacttga	aggcagggaa	gtcgtggtag	gttttgaccg	ttcccaatgg	360
tcctcccggg	gcgcttcacg	cttcaaccag	tcatatgact	atttccttaa	ttactattcc	420
agggatgaaa	gcctgaggaa	gtactccgag	aactggcagg	ccaaaaacga	actgaagaac	480
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<210> 3168
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 <212> DNA
 <213> B. fragilis

<400> 3168

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<210> 3169
 <211> 1326
 <212> DNA
 <213> B. fragilis

<400> 3169

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<210> 3170
 <211> 348
 <212> DNA
 <213> B.fragilis

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 gagttgtact atttcctcga tttgattgat gagtactact ctgaaagcgg aatcctggat 180
 gttcagcccg atgctgacgg ttatgttgac atcgacttgg agcaggtagt agaattcatc 240
 gtgaaagaag ccaaaaaaga tgaagtgggt gaatatgacc cggaagatat cttatttgtg 300
 gtgcagggag aaatggaata cggcaacttt ctgggacagg tggagtaa 348

<210> 3171
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 <212> DNA
 <213> B.fragilis

<400> 3171
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 gtaatatctc tgtttghtaat gacaggatgt ggaggaaata aacaactgac agatgattgc 180
 atcacggttg atgttagtgc ggattatcct aaaaaggaac tgatccttca agattttatg 240
 gatgtagaat acgttccggt ggaaactact gacgatttta taactcaagg tattgtgaaa 300
 gctaccggta agaaaattct gttgggttgca aacagaatta tggatggtaa tatttttgtg 360
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 aagaaagacg gaagtgttac acgaaaaatt caaattcctt tcaaagaact cgagacaccg 720
 gttgtgacga aagatgaggc gatagtgcct ccagtttttt ttctgataac cccgcatgat 780
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 ggacagcaac ccgaaaaatc tgtagatgaa gaaattgtaa cctgtcgtgc tttaaatgct 1140
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 gccggactga atgaagaatc gaattcgggtg attatgttga taaaacgcaa gaaataa 1257

<210> 3172
 <211> 312
 <212> DNA
 <213> B.fragilis

<400> 3172
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 tgcatttgtt tattcattga catgcaaagt tacatgaaaa acagagaata tgaaaatgat 180
 gtgaacaatc atgtaattat attggttcgc aacgttctcg atacaggaat taatattatt 240
 tttgtctgca tattgaaaga tatcttacag acaattaaca aacatcgcag cgaggtagca 300
 ttatcaattt ga 312

<210> 3173
 <211> 786
 <212> DNA
 <213> B.fragilis

<400> 3173
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 ccccttattc atattgcaaa agcagactcc accaacggtt atttaaattgc cctctgcgaa 120
 aaggagaaaag ttagcgaact gaccacagta gtggcagact tccagactgc aggagagga 180
 cagcgcggaa acagttggga atcgggaagac ggaaaaaacc tgatgttcag cttcgtgttg 240
 tatccaactt tcctggaagc acgtaagcaa ttcttgcttt cacaaatcgc ctcttttagca 300
 gttaaagaga cacttgatct atacatagga gacgtttcta taaaatggcc gaatgacatc 360
 tattggaagg acaaaaaaat ctgcggaatg ctgattgaaa acgatctgat ggggaatacat 420
 atcagccaga gtattgcagg agtaggtatc aatatcaatc agaaagaatt tcacagttct 480
 gctcccaatc ccatctcaat catacagatc acccaccggg agtctgaccg tatggaaata 540
 ctgcgacaag ttcttcagcg gataaaagaa tactataaga tcttacagga aggagatatt 600
 gaatttatca ccgatcgta tcaggcagct cttttccgca aagaaggcat acacttttat 660
 aaagattcag aaggaacatt taatgccgga attgtaggag tagaagctga tggtcattta 720
 gttctacaag acgagacggg taagatccgt cgatatctat ttaaagaagt acaatacatt 780
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<210> 3174
 <211> 318
 <212> DNA
 <213> B.fragilis

<400> 3174
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 gatgaactgg ctaaagaata tgaaggaaaa gtgatcatgg gtaaatgtga tgtagacgaa 180
 aacagtgatc tacctgcaga atttggtatc cgcaatattc ctactgttct attttttaag 240
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 gttgagaaat tattataa 318

<210> 3175
 <211> 1332
 <212> DNA
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 gggctgcttg cgctgctgct tgctctggct ttcgatggat atctgttgta tcgcaccaag 180
 ggtatccagg ctttcgctca gtgtgccgga cgtttttcta acggtgatga taacgaagtc 240
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 ccggtcatat ttcagcaaag gaatgtacac ttcgagctgt cgcttttacc taatgaggga 360
 aagacgctta cctatcggtt gaggccgact cgcaggggag aatacggttt cggattcatc 420
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 gcgttcgaga agagactgat tgtgtcaact ttgaaacagc atggcattta ctcgctgctg 1260
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 cagttactct ga 1332

<210> 3176
 <211> 867
 <212> DNA
 <213> B.fragilis

<400> 3176

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aatcacactc	cctctccagc	taccgatgag	gcgacatcct	cccccaatga	acaggaacaa	180
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<210> 3177
 <211> 723
 <212> DNA
 <213> B.fragilis

<400> 3177

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<210> 3178
 <211> 1989
 <212> DNA
 <213> B.fragilis

<400> 3178

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<210> 3179

<211> 2796

<212> DNA

<213> B. fragilis

<400> 3179

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<210> 3180

<211> 1326

<212> DNA

<213> B.fragilis

<400> 3180

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<210> 3181

<211> 738

<212> DNA

<213> B.fragilis

<400> 3181

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<210> 3182

<211> 1809

<212> DNA

<213> B.fragilis

<400> 3182

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<210> 3183

<211> 711

<212> DNA

<213> B.fragilis

<400> 3183

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gccaaagctt	gtatagcgga	agctcatccg	gatatcattg	tacttgatgt	ggagatcgga	180
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gtggcttata	ttaaaaagcc	ctttcatgct	gaagaattaa	ttgcgtatgt	tgaaagggtt	360
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aaataccttg	ttgccgatcc	cgacatcgca	cttgaaacga	taccgaggag	cggatatagg	660
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<210> 3184

<211> 756

<212> DNA

<213> B.fragilis

<400> 3184

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gttttaaat	atgtatatag	tcctatatat	tacattatag	ttgctatttc	aatcatgtat	720
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<210> 3185

<211> 1098

<212> DNA

<213> B.fragilis

<400> 3185

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aactcaaccg	ataaataa					1098

<210> 3186

<211> 1062

<212> DNA

<213> B.fragilis

<400> 3186

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gaaaaactca	tggaatcaca	aaaacctaaa	attgctttat	atgtgaagcg	tccttttggt	180
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<210> 3187

<211> 291

<212> DNA

<213> B.fragilis

<400> 3187

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<210> 3188

<211> 729

<212> DNA

<213> B.fragilis

<400> 3188

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<210> 3189

<211> 1410

<212> DNA

<213> B.fragilis

<400> 3189

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<210> 3190

<211> 624

<212> DNA

<213> B.fragilis

<400> 3190

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ctcagtatgc	agctctccaa	gttacttcgt	gccattttcg	gaagtcgttt	tgctgaggag	180
tattccggca	ttatcctgat	tattattgct	attctcatcc	tgttgctgat	cctctggttt	240
ctttataaaa	agcgtcccga	gctttttatg	cgttcacgca	gaggtcctgt	aaactatagt	300
gtccacgaag	ataccattta	cggagtcgat	tttgatgcag	agatcaggcg	tgccatagac	360
cgcaaggatt	accgggaggc	catccgtctg	ctttatttgc	agacccttaa	actggtgagc	420
gatgacggcc	ggatagattg	gcaactttat	aagactccta	cagaatatat	ttatgaggta	480
aagcaggaga	tacttcgtac	tcctttcagg	aatctgacct	atgggtttctt	acgggtacgt	540
tatggtaatt	ttcccgcctt	cgagtctctt	tttgaagagc	tggcagctct	gcaaactcaa	600
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<210> 3191

<211> 258

<212> DNA

<213> B.fragilis

<400> 3191

cttcttttcc	tgaaagaagt	taatgttttg	atgataaaac	cggaatatatt	atccgagaag	60
ataagaaaat	tcgcatacaa	ataccctatt	tatgtatttc	actcctctat	taggacgatt	120
tcgaaaaaag	accgcgttat	taaaagagag	ataaaaaatat	ctttttcatg	caaaaacgca	180
aataaaciaa	tctatttgca	caactatttc	tctctgcgta	ctcgtgataa	gatttatcca	240
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<210> 3192

<211> 498

<212> DNA

<213> B.fragilis

<400> 3192

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caaatggcac	aaattaagaa	tgcgaaacatt	cttctcatct	caaaagatga	aatgaaatta	180
cgcttaatag	actataaggg	ccaagaatta	ttcactgccc	acatagcttg	tgggaagaat	240
tatggcaaca	aggaaaaaca	aggagattta	aaaactcctg	aaggaaacttt	taaaataatc	300
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ggtgcatacg	gtaatcattt	catccgggta	gaaacacccg	gacataaagg	gaattgggat	420
tcatggcacc	cacgacccat	tatctattgg	gacccggagc	gacccgagga	tgcatctgaa	480
tcaaaaattc	agaattag					498

<210> 3193

<211> 573

<212> DNA

<213> B.fragilis

<400> 3193

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cgcttgctgg	atggatatccg	tgtagactct	tacggaagca	tggtacccat	cagcaacgta	180
gctgccgtaa	ccactcccga	tgacgcgagc	atcacgatta	aaccttgga	taaaagcatg	240
ttccgggtta	ttgaaaaagc	cattatcgac	tccgatctcg	gcattatgcc	ggagaataac	300
ggtgaaatta	tccgcacggg	tattccacct	cttaccgagg	aacgccgtaa	gcaactcgcc	360
aaacaatgta	aagctgaggg	tgaaacagcc	aaagtcagta	tccgtaacgc	acggcgcgac	420
ggcatcgatg	cactgaagaa	agctgtaaaa	gacggtttgg	ctgaagatga	acaaaagaac	480
gcagaagcta	aactgcagaa	ggttcatgac	aaatacattg	ccaaaattga	agaaatgctg	540
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<210> 3194

<211> 1302

<212> DNA

<213> B.fragilis

<400> 3194

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ctggataata	aagatgatag	caatgatatc	acccttatat	gtaaatctca	aatcatctc	180
agtgattatc	tatatatccc	cccgtcaagt	catataaaaa	cagaagaagc	agagattatt	240
cttacttatg	gcaaaacagg	tttgagccac	attagtcaat	ttgcaagaaa	atcaaataatc	300
ccaatcatac	acttcataaa	tacagagtat	ttaaaagacg	aatatttaag	tgaagaccaa	360
caagtagaaa	aaataatact	ttgtgattgc	ttcaatcagc	tcttgagag	tttctttcaa	420
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tcaccgggtct	attatatcag	taacttatta	aatattttat	cagactatag	aatcacaata	600
ctttataatg	gagatcctct	tatccctata	ttcaattcta	atattacact	tatcaatgta	660
aaagaatcga	atatcgaaaa	agtaattcta	tcaaatgata	taatcatcgg	ggatgggtatt	720
tctatthtaca	caggaataat	gttaggtaaa	ccatgtatcg	tgattggaga	gcaaggatat	780
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ataggggggaa	gcttaaacga	atacatccct	ttgaatttga	tcatgaacga	tattcaatat	900
gtacaaaata	cagaaaagag	caaaaacata	gactgcatta	ttattaaaaa	caaaaaattg	960
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gcccaaccaca	aacaattata	tacgttccct	atggaaattc	accttaggtt	atcggatgct	1080
ttcacctta	ttaaattttc	tgataccaaa	tttgtattag	cttatacagc	caacaacaaa	1140
gtccattcaa	gttttggtaa	agaagaagct	gaaattatag	ccctttttta	aagaagttgc	1200
ttataaaaaag	atgctataaa	tatgagtcga	tacaaaaagg	aacctaaaat	atthgtggag	1260
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<210> 3195

<211> 1086

<212> DNA

<213> B.fragilis

<400> 3195

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atgacaggca	aacagatcaa	taaaagggtt	ctgaacgtaa	acgccaaaat	cataaaacca	180
caattgctga	cagaccagat	tcaaatacagc	ggtagcttga	tgcttgacga	ggaggtggat	240
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ggggtgatcg	gactccggca	ggtcagcggt	ggctcttatg	cttcacctac	taccatcgta	600
gccaaactga	caaaaatcat	tcctctgaaa	atagagtttt	ccgtaccgca	gcgttatgcc	660
agtcaggtaa	aaaagggaac	taacctcaac	ttcgaactgg	aaggaaagtt	aagctctttc	720
cccgcgaaag	tatatgccac	cgaatcacga	atcgatcagt	ctactcgtac	actgaccgtt	780
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ctgaaaaaag	aagaaatccc	gaatgccatc	gccatcccat	cggagtccat	cgtacctgag	900
atgggtaagg	ataaagtatt	cctctataaa	tgggtaaaag	ccgaaccggg	agaaataacc	960
gcaggatatcc	gtaccgaagc	tgaagtacaa	gtcataaagg	gcctacaaat	gggtgatacc	1020
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aattaa						1086

<210> 3196

<211> 204

<212> DNA

<213> B.fragilis

<400> 3196

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gcagataacg	gaaaatactg	tattggaatt	acatatattg	atagaatgat	agaaatagga	120
ctcagtatat	ttaatagtat	cttattcctt	ttagtcgtta	aattgataat	agatcctgat	180
aagttatttt	tttgtaaaat	ataa				204

<210> 3197

<211> 201

<212> DNA

<213> B.fragilis

<400> 3197

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ttgccggtcg	ttatatcggc	gccggtaatc	gtatggagct	tcaccgtacc	gtccgacagt	120
tattcggatg	gggtgtcgga	ttatcagccg	gggttcacct	tctttacggg	attgggtggac	180
aatcatttct	gggattactg	a				201

<210> 3198

<211> 351

<212> DNA

<213> B.fragilis

<400> 3198

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atagaagagc	agacttctct	taaaggagga	gttagccaag	atgagttttt	tagaatgtta	120
gagaataaca	cttggcaagg	tggttatggt	gatgggtatg	gttatgcagc	cccggctgta	180
acaatctatg	gaacttcttg	gaacgaaacc	gggagatggg	atatagacgg	atgcccggcc	240
tgccgtaacg	gattaggata	tgatcaaacc	aagcctaagc	cggaacatga	tatcgtgacg	300
atttggaactc	atttcttttg	ccataaacac	atttattatg	gaagcaaata	a	351

<210> 3199
 <211> 561
 <212> DNA
 <213> B.fragilis

<400> 3199
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 cgactgtgtg taatagatat ttctgaaata gcaataagtc atacgacaac ttttgaaatc 120
 aatagttcccg ccaacaaaac cttatatattt ttgtataaca aagataaaca cagtgcattt 180
 attaccatttt taaaaaacia tatgcaaggt tgcacctaata atgtattagg aggagggtta 240
 ttaggaatag gtacactttt taacttggtt ttaaatgggt tttgttttgc ggatgtatgt 300
 tgccgaacat acaaaactagg catgagtata accgatattt tcgctttaac cttgccccat 360
 agctttgaac ttatcgggtt ttggatatca ggaggaatag gactttatat agcttggaat 420
 attattttgt ttatgtatac agataaaatg cctacattta aattttacaa aaacataggc 480
 atcaattttat tgatcatttt cataattatt ctttcagctg cctacatcga aacttatgta 540
 tcaataaata tggttaacatg a 561

<210> 3200
 <211> 813
 <212> DNA
 <213> B.fragilis

<400> 3200
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 caggatttcg ttcattttaca cgtccataca caatattctc ttctggatgg tcaggccagt 180
 gtcagtgcac ttggtcgataa ggctatgaaa gacgggatga aaggatttgc cgttacggac 240
 catgggaaaca tgtgcgccat taaagagttt acgaactatg ttaataagaa aaatggaggt 300
 ccgaaaggag aaataaaggga cctgaagaag cggattgcag ctattgaagc cgggtgaagtg 360
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 gggcgattgt tcaagcctat cataggctgt gagatgtatg ttgctcgccg tacaatggat 480
 aaaaaggagg gaaagcctga ccagagcggg tatcacctga ttgtgctcgc caaaaacgag 540
 aaggggtatc ataacctgat aaaattgggt tcgcgggcat ggaccaaagg ctactatatg 600
 cgtccccgta cagaccggaa cgagttggag aaatatcacg aaggtttgat tatctgttct 660
 gcgtgcttgg gcggtgaagt gcccaaaaag ataactcagg gattgttggc ggaagcagaa 720
 gaagccatcc aatgggtataa gaacctgtt ggagacgatt attatctgga aatgcagcgc 780
 cataaagcga cagggcctaa agccaaatca tga 813

<210> 3201
 <211> 1257
 <212> DNA
 <213> B.fragilis

<400> 3201
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 ttactttctt ttatgctggg agtgctgttt gcttggtgtc agggggcggc ctcttcgggc 180
 aatgcaggaa aaaatgcttc ccgggtgagg attgcttcca atgactctgc gaagctgggt 240
 cctgataaag ccctgaatga tgcgtcttgc gtacttgcag gtttgccggg tgataaagca 300
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 gatcagatat ggaatgtttt ccggcagacg gctccccggc tggtagcttt ctacagacg 420
 gaactggaag acatcaatac tcgttgccat actctgtttt atccttttgg cggctctgac 480
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 aagatagtca gcattcagga agtgtggtta tcggaaaccg gagatctttt cgaaagaaaa 780
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tctcagtatc	ttcagccgca	attgcgcgat	gcctatcaac	tgggtgatcc	gaaacccctt	1200
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<210> 3202
 <211> 663
 <212> DNA
 <213> B.fragilis

<400> 3202						
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ctacatcgaa	acttatgtat	caataaatat	gttaacatga	aaaggataat	caatacactt	120
gagaagatgc	ctaaatggta	tggcttttta	actatattac	tatatagctt	attactcgca	180
gaatttttga	taactactaa	tcatcttgtg	aataataaca	atttagagac	tgacagatta	240
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taa						663

<210> 3203
 <211> 318
 <212> DNA
 <213> B.fragilis

<400> 3203						
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gtaagacggt	ggttgtttct	tgactttttc	gtgaagcagt	attttttgct	tttcgacctg	180
ttgggcggca	tgggtatgtca	gggaaacat	ggcagatata	aacataactt	ttgtcttaat	240
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<210> 3204
 <211> 306
 <212> DNA
 <213> B.fragilis

<400> 3204						
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gcaactgttg	caatgactta	tgctgccgga	actggtgaat	atggctctga	agcatcagga	180
aagtttagctg	ttggagcatt	agcaatggga	aaagtaacag	aaacattagg	tacttgtgct	240
gttgggtctag	gctgggtgtcc	ggcagggttg	atagccggag	taggagccgc	agcagcagga	300
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<210> 3205
 <211> 2223
 <212> DNA
 <213> B.fragilis

<400> 3205						
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aactttccat	cttacattca	acatgaccaa	atggattgtg	gaccagcctg	tctgaagatt	120
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aatgcccata	atatagtggt	catggaaaag	ggaaaaattg	tggaaacaagg	gactcatcaa	2160
gaacttataa	attttaaagg	aatatattac	gacctaat	ctagtcaatt	agagattgga	2220
taa						2223

<210> 3206

<211> 1338

<212> DNA

<213> B.fragilis

<400> 3206

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gatattttta	ttgatttgc	tggcaaggcg	gctactggat	ttatggaaac	gaatacgct	180
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gaggcacctg	cttttttgtt	gattggcaat	gcggaagaaa	tagcttttaa	cgttgacgta	300
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gctattaata	ttacacttaa	tcctaaagcg	attaaaggca	aactcagaaa	aggtagaac	420
acaaccggta	ggttgagttt	tcatccatca	gagatttcta	ccgtatttaa	atcgccgata	480
acgggtagaa	cgtatcattt	agtgtttaat	gatgagttcg	atgatggagt	gatagatact	540
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aaaccttact	atgtgctgtg	tcatgaggat	tggaccaaag	agttgcatgg	cgaacttcgt	660
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attggtgaag	gttactggcc	tgcttttttg	atacattttg	atgaagccga	taagtagtga	840
aaaggaaactg	aaattgatgt	ttttgaatat	attcctaaag	ataaacaat	ctttcagaca	900

cttcattggt	ataaaaaaca	agcaatggag	gagcagcaat	cagaagtgca	acatgcagct	960
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attttctaca	cagatggtaa	ggttaccgt	cgggtgaatc	ggaaagatga	tcccaaacia	1140
gtgccaaagt	cttaccaaat	ggttttatttc	tcttgttccg	caggagaatg	gggaggtaat	1200
gtgatggaaa	atcaagtacc	tgcttatgtc	tatttttgatt	attgcagatg	ttatcaggaa	1260
agtgatcagg	atgctattta	caccgttaaa	ggtaatggga	tgaaagtttc	ggcgagccgg	1320
cgtgtgggaa	agctctga					1338

<210> 3207

<211> 450

<212> DNA

<213> B.fragilis

<400> 3207

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cctataaata	taaaaatctt	ctttatggca	gaacacaacc	ttctaggaaa	agccggagag	120
gacgccgccg	tgcactatct	ggaacggcat	gactacgtaa	tccggcatcg	taactggcgt	180
aaaggacatt	tccaactgga	cattgtggca	gctaaaaacg	gagaactgat	tattgtagaa	240
gtaaaaaccc	ggagcgatac	ggacttttgc	cttcctcaag	acgccgtcac	tccacaaaaa	300
atcaggcgca	ctgtaatagc	agccgataca	tatatcaagt	tattccaaat	agatgaacct	360
gtacggtttg	atattatcac	cgtgataggc	aaaaccggaa	atlttagaat	tgaacatata	420
aaagaggcgt	tttatccgcc	attatttttag				450

<210> 3208

<211> 363

<212> DNA

<213> B.fragilis

<400> 3208

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tgcttcccat	tgcacgaata	ttcactcgtc	atgaaagtaa	tggataaaat	gttcgccctg	120
atcgatctgg	aagggggcaa	tacgatttca	ttgaaatgtg	atccggacta	tgccatcgaa	180
ttacgtgagc	actattcggc	catcgaagga	gcttatcatt	ttcacaagaa	gtattggaat	240
caagtctact	ttgaccggga	tgccgatgac	aagctgatca	agcaactgat	agatcattct	300
tacgacgaag	taatgaagaa	atltaccaa	aaattacgta	ccgaatatga	tgccctaccc	360
tga						363

<210> 3209

<211> 699

<212> DNA

<213> B.fragilis

<400> 3209

ataaaaaatga	agaagatgaa	aaccttgact	ttattttcttt	ccttgctctt	ttctttcccg	60
tttgtgcttt	cggctcagat	gggtgggagag	actttgcaga	aggtctctgc	tgcccttgat	120
aacagacagt	gggaccaagc	tgttactttg	ttccgccaaag	cggtaaatac	caatgtagag	180
aaagccgaaa	tgttctattg	gacaggtgtg	gataagagtc	tggagatata	atccaggatg	240
gggcgggaac	tggctgctta	ttacaaaaaa	tcacgcagct	atgacaaagc	gtatcttttt	300
tataaagagt	tgcttcaaaa	atctccgaat	gatgttaatt	gtcttgtgtc	atgtgctgag	360
atggaagtat	gccgtgggag	ggagtctgaa	gctttggaga	cttaccggaa	agtactgtca	420
ttggatgcgg	ataatctggc	agccaatatt	tttatcggta	attatcttta	tttgaaggcg	480
gagagagaga	aaaaacagtt	agaagccgat	tataaaaaaga	ttagtgctcc	cactcggatg	540
cagtatgcac	gctatcgtga	tggtcttagc	cgtgtgatga	gtaccggata	cggaaaggca	600
agggaaatc	ttcaaaaagg	gatcagtcaa	ttcccttcta	ctgaagctca	aaagacatta	660
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<210> 3210

<211> 2070

<212> DNA
<213> B. fragilis

<220>
<221> unsure
<222>

(135), (1301), (1345), (2035), (2048), (2049), (2050), (2051), (2052), (2054), (2058), (2059)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3210

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tcggacgagc	cgaantgggg	ccctgccgac	atcaaaagct	acatgaagat	gaatgggtga	180
cccatggtgg	gaatcggtgt	aatccccag	cggggtgcca	accatataaa	gatagccgat	240
gcggtatatg	aacgcattga	gaagatgcag	aaggacctcc	cggaagacgt	gaagtattct	300
tacggattcg	ataacaccaa	attcatccgt	gcctctatca	gcgaagtga	agaaaccgtt	360
tacgtagctt	tcattcctgt	tatcattatt	atcttccttt	ttctgcgcga	ctggcggtgt	420
acgctgggtc	cctgcattcg	gattccggta	tcgttgatcg	gtgctttctt	cgttatgtat	480
ctggcgggact	tctccatcaa	cgtgctctcc	atgctggctg	ttgtgctggc	agtgggtctg	540
gtggtggacg	acgctatcgt	aatgacggaa	aacatctatg	tccgcattga	gaaaggatg	600
cctccgaaag	aggccggcat	cgaaggggct	aaagagattt	tcttcgctgt	catctctacc	660
accattacgc	tgggtgcccgt	attcttcccc	atcgtcttta	tggaggggat	gacaggacga	720
ctgttcctgt	aatttagtat	tgttatttcc	ggttcgggta	tcattctctc	ttttgcgggt	780
ctgaccttta	ctccgatgct	agccaccaag	ttactggtaa	aacgggagaa	acagaactgg	840
ttctatctga	aaacagaacc	tttcttcgaa	ggaatgagcc	gcctctacag	tcgttcaactg	900
gctgttttcc	tccataaacg	ttggattgcc	ctgccctttg	tagcaattac	cattggcctc	960
attgccttct	tgtggaatta	catcccgcca	gaaatggctc	cgttggaaga	ccgttcacaa	1020
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gaagacatca	atgacctcgt	agactcgatt	gtaccggatg	ccgaatcggt	aaccgcccgt	1140
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accagatgg	atgtggctga	aaaactgtcg	gcagcagtac	agacaaagac	gatggcgctg	1260
tcattcgtcc	agcagtcctc	ttcttttggc	ggacggcggt	ncggtagtgc	cgtccaatac	1320
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gtttacgaga	accgggtatt	ccagatggca	gacgtagacc	tgaagttcag	caagccggag	1440
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gcacagaccc	tgcaatacgg	tctgagcggg	cagcgaatgg	gctacttcta	tatgaacggc	1560
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tatcgcgaga	gttcttcaag	tctgatgttt	gctttttatt	tgccattgtg	actgatttac	1920
ctgatcctgg	cagcacagtt	cgagagtttc	aaagaccgcg	tgatcattat	gctgaccgtc	1980
cccctggcta	ttgcaggcgc	attggtcttc	accacggggc	tggaagggtc	cgacnggtgc	2040
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<210> 3211
<211> 561
<212> DNA
<213> B. fragilis

<400> 3211

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tgtgtacaac	aaaaagggtc	tttcagccct	gtagactatg	tgaatcctct	gatggggacg	120
gagtctactt	atgctttttc	acatgggaat	acttatcctg	cggtggcggt	tccctgggga	180
atgaattttc	ggagtcgcga	gaccggagag	aacggtagtg	gctggatgta	cacgtatacc	240
gacagcctga	tacggggggt	ccgccagacc	catcagccca	gtccgtggat	taacgattac	300
ggtactttct	ctgttatgcc	gctgtccggg	gtgctgaaga	tggatcataa	agaacgggga	360

gtacctttct	cacataccca	agaggaggcg	gctccctaca	gttacagcgt	tacgtttgcc	420
gacggactcc	ggacagaact	ttccgctact	tcacgcggag	cggtattcga	agtcaccttt	480
ccgcaggact	ctgcccagta	tatcgttgtg	gatgcctaca	acgggtggaag	tgcgttgacg	540
atagaccggg	agaatcggta	g				561

<210> 3212

<211> 1578

<212> DNA

<213> B.fragilis

<400> 3212

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acagagttca	aaaaagtatt	accacataat	gcaccctatt	tacaacgaaa	cggtattgag	180
gtaatcattg	tcctagatga	ccccgatgaa	aagtcagaac	ttctaattgct	gcttcaaaat	240
tatccattca	taaattggaa	gctaattatt	aatgaacgaa	aacatgctcc	tcgcaaccat	300
gcttccgtac	taaatgtagg	actcaagcat	gctacaaaaa	agtatatcct	acaaatagat	360
cctgaagtag	aattcctcac	tgatattata	tggcaaataga	gagatgccat	agagaaatat	420
cccatgcact	atatacctcg	aatgatggca	tatgtaccct	atgagcagga	acttacagaa	480
aataatataa	aagagttgga	ttttatcccc	tggggcaatt	tgatggtaga	acgtaaccat	540
ctatacaaat	tacatggtta	tgatgaaaca	ttcatcacat	gggggtggaga	agataataat	600
atgctgcac	ggttgatgat	gtctgggtatc	aaaaaattca	tcctcccaga	ggcaaagact	660
attcatcggg	aaaaaaatta	tgatcccaac	gaacgctcta	aacgtatcaa	taaacatagc	720
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ggaagtgaat	ttaacaaaagt	catttacgac	tggcaagaca	atcaatatgc	aaaagacttg	840
tgctatacat	atctacagca	atttatcggg	ttcgaaatca	gacaccccg	cgcatttcgg	900
aaaaggcaca	aaaagatagt	cctctgccaa	gcgtacaacg	aagaaaaact	gatagaaggt	960
tttctaacaa	atatggcaag	ctattttgac	gggtatcattt	tgctggatga	tgaaagtacg	1020
gatcgaactt	gggatttagc	aatccatgac	aaaattttat	taaaagtga	aaagaaaaga	1080
agtgggttca	acgatttaga	gaatagaaat	atattactcg	atttaagtgc	cttcttccaa	1140
tccgaatggt	tttgttttat	ggatattgac	gaaagatttg	atgagagatt	taccaatttt	1200
tcagaatttg	agaataataa	agagatacat	gtggtaagtt	ttaggggtgt	gtattttatgg	1260
aacgatgaac	aaagttataa	aggtgatatt	ccgaattcta	acaaagggtat	cctcacagtt	1320
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atagcgactc	cgtattttcac	gaacacatgg	caaagcaata	tattatttaa	agactatgga	1440
tccatgaaag	aaaatgatcg	aattagaaaa	tatgaaaggt	atatacaaga	agaccaacaa	1500
aaggacatgt	cgtcagggtg	tgattactta	ttgaatagcg	aaaatctata	tcaactggat	1560
aaaattgaag	aatattaa					1578

<210> 3213

<211> 225

<212> DNA

<213> B.fragilis

<400> 3213

gagaattatg	atatattttgc	aacccaaaact	aaaaaatggt	taaccggaaa	tgacagaatc	60
gactatgatt	gtcacacttt	agaagaaatc	ggattaactc	tgcttaaaaa	cagtcactca	120
ctcttctttt	ctgtttttct	aatttcacag	aaagcctata	tcgctcctc	ggtatcgttt	180
caagtgcgat	gtcgggatcg	gcaacaaggt	attttcgtat	cttga		225

<210> 3214

<211> 468

<212> DNA

<213> B.fragilis

<400> 3214

gataggaaag	agcctttttca	gaaagaaaca	ataaaccaac	atacaagtat	ggaaatcaag	60
attcaatcac	tggaacaaat	tcacgaagct	gcccgcgagt	tcattctcagc	catgggcgat	120
aacacgggtc	ttgcactcta	cggaaagatg	ggagcaggta	aaacgacttt	tgtcaaggca	180

ctttgcgagg	agctcggagt	atcggatgtc	atcacttcac	cgacttttgc	cattgtaaac	240
gaataccgtt	cggacgagaa	cggagaactg	atctatcatt	ttgacttcta	ccggatcaag	300
aagttgagcg	aagtatacga	tatgggatac	gaagactact	tctatagcgg	tgcactttgt	360
ttcatcgaat	ggccggagct	ggtagaagaa	ttattgccgg	gagacgccgt	gaaagtaacc	420
attgaggaac	tggaggacgg	aacaagaaaa	atagtgatca	acgactaa		468

<210> 3215

<211> 1596

<212> DNA

<213> B.fragilis

<400> 3215

ataactatgg	acaataccag	aagtgtatat	ggatcgcatt	tgggtaccac	ctacagttgc	60
attgcacaag	tagataaatt	cgaccaagcc	attgttctcc	gcaatttcga	aggagatgcc	120
actactccat	ccgctgtata	ttttgaggat	atggaccatg	ttgtcgtggg	aaaagaagcc	180
aaaggtatgt	tggccactga	acctaccaa	acggcagtat	tcataaaacg	ccatataggt	240
gtagatgaca	gtttcgataa	aaatacaaac	gaatttccct	atcattacga	cccaacagaa	300
atttcggctt	tcattcttaa	aaagctgggt	aaagatgcca	acgatttggg	agataatccg	360
gaaccgatca	aagatgtcgt	tatcacttgt	ccggcctatt	ttggaaccaa	agagcgtatg	420
caaaccaagc	aggccggaga	aatagccggc	ttaaatgtac	tttctatcat	caatgagcct	480
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gacctcggag	gcggaacatt	tgacgttacc	ctgattaacg	tgaacgggtg	tgccattaaa	600
gtaatagcca	caggtggaga	ccatcattta	ggaggagtag	actgggatac	cgcattagct	660
gaatatatgc	tggcagcttt	taacgaacaa	aataacactt	cttattcgtt	cgaagaccga	720
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aagcagacag	cgaagcaaac	ttaccaatat	gaaggcaatt	ccgcacgtat	agagattagc	840
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aaggttattg	ctattgccaa	agaaaaaggt	tacaataata	ttgatgaaat	actgttgggtg	960
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gccaaactaa	ccgaccggga	tgaatgtgta	gccaaaggag	cggcaattta	tgctatgaat	1080
gccgcctatt	cacaagcagt	tcgcgactat	gaagaaggag	aaagtgatga	taaaccggct	1140
cctctccgtg	gagatcgcac	cacagtggtc	aatgtcacca	gtaaaacata	tggtaccgac	1200
gtaatcattg	aaggacaaa	catggtgcaa	aacctcattt	ttgcaaata	ttcgttaccc	1260
acaaaacgaa	ttgaaacctt	tactacttct	attcctaacc	aacgaggtgt	atctgtgaaa	1320
gtatttgaaa	gtgatttcac	aaatatggaa	acagaaagta	tcgtggaaga	aagattctgc	1380
acactaattg	acgaccatac	gcttaaactg	agcaaagact	ggcctcaagg	taccagatt	1440
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gataaacttg	aattcgaatc	caaaatcacc	ggtgtaaaat	gtgaagaaga	actcagaaaa	1560
tcaaaagcaa	tcacgcagaa	agcatcagta	gagtaa			1596

<210> 3216

<211> 1254

<212> DNA

<213> B.fragilis

<400> 3216

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acccggagcg	acccgaggat	gcattcgaat	caaaaattca	gaattagagc	aattagtatc	120
tttaatccga	gtgccaaaca	ctgttatcat	cacgccctct	gtaaaagaca	taaaaaccca	180
gtaaataaca	aaccgatgaa	aacattcaaa	cgattcctgt	tcatttgtat	cggactattc	240
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aacatacgta	gtcatggaag	cacaaatgct	cctgtcatcg	gaacaataaa	tcattggagga	360
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ttctttttag	gcttttttgc	tgtggtagga	attggatttc	ttgtcggaca	atctgtgcaa	960
acaggtatta	ttttcaataa	agtacttccc	aaaggtggat	ggaaacatgc	gtgtatctgt	1020
acattaactt	atttaattgg	ttcaacagcc	actgtcttaa	ttgtagctca	tttcctcatc	1080
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tcatccggcg	gtaaaagatg	ctccaattgt	agccacctca	gtggttccag	ttgtaactta	1200
agcggacggt	atatcagcag	cccgtctacc	acctattgcg	ataattacca	ataa	1254

<210> 3217

<211> 3219

<212> DNA

<213> B.fragilis

<400> 3217

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acgattatta	tctggaaatg	cagcgccata	aagcgacagg	gcctaaagcc	aaatcatgaa	120
gcttatccgt	tgcaggtgaa	tgtaaataag	catttgattg	aatactcaa	aaagtataat	180
gtcaagttaa	tctgtacgaa	tgatgttcac	tttgtcaacg	agaacatgc	tgaggcgcac	240
gatcggctga	tctgttttag	tacgggaaaa	gatctcgacg	atccgaaccg	gatgtattat	300
acgaaacaag	agtggatgaa	gacgaaggca	gagatgaatg	aactctttgc	cgatgtgccc	360
gaagcattga	gtaatacact	tgagattctg	gataaagtag	agtattattc	aatcgatcac	420
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caaaaatata	cggaaaagga	tctttttgat	gagttcaccc	aagacgaaaa	cggcaacgtg	540
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tattgtttgc	agatcactaa	aatagaccgg	atcaaatacg	atltgtctgt	tgagcgtttc	900
ttgaatcccg	atcgtatttc	attgcctgat	atcgatattg	acttcgatga	tgatggctgt	960
ggcgaagtgt	tacgttgggt	gacggagaaa	tatggacagg	aaaagggtggc	gcataatcatt	1020
acctatggta	ctatggctac	gaaactggct	atcaaagatg	ttgcccggtgt	ccagaaactt	1080
ccgcttgccg	aatcggatcg	cttggccaaa	ttgggttccgg	ataaaattcc	ggataagaaa	1140
ctgaatctga	agaatgccat	agaatatgtg	cccgaattgc	aggcggctga	agcatctccc	1200
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 <212> DNA
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 <211> 1293
 <212> DNA
 <213> B.fragilis

<400> 3221

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 <211> 267
 <212> DNA
 <213> B.fragilis

<400> 3222

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gagcagcaga	ttgtggatcg	ttatctggat	aagtataaga	taacgaataa	atcacgctgg	180
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 <212> DNA
 <213> B.fragilis

<400> 3223

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tcaagtgtag	catcgagggt	ggaatcctca	caactactga	aaccaataag	tactaaaagt	180
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<210> 3224
 <211> 198
 <212> DNA
 <213> B.fragilis

<400> 3224

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<210> 3225

<211> 279

<212> DNA

<213> B.fragilis

<400> 3225

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<210> 3226

<211> 936

<212> DNA

<213> B.fragilis

<400> 3226

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<210> 3227

<211> 3198

<212> DNA

<213> B.fragilis

<400> 3227

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<211> 432

<212> DNA

<213> B.fragilis

<400> 3228

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432

<210> 3229

<211> 222

<212> DNA
<213> B.fragilis

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<221> unsure
<222> (11)
<223> Identity of nucleotide sequences at the above locations are unknown.

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aagccctgct caatgaaagt gaatttacc gtaactacct ga 222

<210> 3230
<211> 201
<212> DNA
<213> B.fragilis

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<210> 3231
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<212> DNA
<213> B.fragilis

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<210> 3232
<211> 1356
<212> DNA
<213> B.fragilis

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accgtaaaaca ttacctgtag tgactcctgg acagcagcaa gttcttctac agcatgtaat 240
ctcgttccta atcaagggaac gagcaatcaa tcaactcagca ttgttggtga agctaacctg 300
gatgaagccg aaagaaatat gacagttgtc gttacttccg gcggaatcaa gaaaaccatc 360
agcattagcc agcaagggaag aagtacaaca gcaggtgagt atcactataa ccttccggtt 420
attttccatg tactatataa agataaaaaac aatcctttac aatacggtta acaagaccgt 480

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gacgaaacag	gtaaatatgt	aaaatacatc	tgggaaccga	ataactatat	caacgtaatg	720
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gtaagttact	cagaccggtt	taccaacgac	caacgttccc	gtatccgtca	cgtcccgaca	1260
tacagtccgc	tgatacccg	tcccaaacaa	ggacaaacac	aaacgcgttc	cgttgtcgaa	1320
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<210> 3233

<211> 1020

<212> DNA

<213> B.fragilis

<400> 3233

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gctaccgagg	cttatatcgg	atttttggcc	gatgatgaac	ttcaaggacg	tgaagccgga	180
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cgtccggttag	gcgagagcta	ttatcagccg	tttgatgctt	accggaaaga	acgccagcag	300
aaaggacgac	tggaagtgca	ccctgactcc	attgccaaac	tgaacaagt	ggtgcatcag	360
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catcccgaatt	accatcagcc	ttctgaccat	gcagaccgtc	tgaattggga	taaagtgggt	960
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<210> 3234

<211> 720

<212> DNA

<213> B.fragilis

<400> 3234

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cttttttcag	gctgcattgc	cggcgtgatg	gcttttgaag	ctaagtatga	actagctttt	120
atcttcatta	tattaagtgc	tgtcttcgac	tttttcgacg	gcatgctggc	acgactgctt	180
catgcatatt	ctccgatagg	aaaagaactc	gactcactgg	cggatgacgt	cagtttttga	240
gtagccctt	ctttacttgt	tttttcattt	ttgaaagaac	ccggattgat	ataccgcgac	300
tttctggcag	gattaagaga	ttatatccct	tatctggcat	tccttatctc	tattttttct	360
gctttacgtt	tggtcaattt	taacgtagac	gagcggcaaa	ccagttcttt	cataggcctt	420
ccggtaccgg	ccaatgccct	ctattgggga	gcgttaatcg	taggtggcaa	agattttctg	480
ctggcacatt	gcaatgttat	ataccttatt	ataatggtaa	tgctcttttc	atgggttgctt	540
gtggctgaaa	ttcccatggt	ctctctgaaa	ttcaaaaatc	tttcttggaa	agataataag	600
gtaagtttca	tattttctgat	tgtctgcatt	ccattactac	tgtttctggg	tatcagcgga	660
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<210> 3235
 <211> 696
 <212> DNA
 <213> B.fragilis

<400> 3235
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 attgattgta aaataccatt ctatctgggt gctttggtaa gtatcgtcgt ctatctgttg 180
 atggttaact ttttccgttg tcccacccg cttttcggac aggatacaga aaagattgta 240
 gttgcaccgg cagacggaaa aatcgtagtc atcgaagaag tagatgaaca tgaatacttc 300
 cacgatcgcc gcattatggt atctattttc atgagcata taaatgtaca cgccaactgg 360
 tatccggtag acggagtggg caagaaagtc actcatgata atggtaaatt catgaaagca 420
 tggcttccga aagccagtac agaaaatgaa cgttcaatga tcgtcatcga aactcctgag 480
 ggagtagagg taatggcacg gcaaatagcc ggtgcaatgg caagacgtat tgtaacatat 540
 gccgaaccgg gagaagaatg ttatatcgac gagcatttgg gattcataaa attcggttca 600
 cgtgtagatg tatatctccc gttaggcaca gaaatctgtg tcagcatggg acaattgacc 660
 accggttaacc aaactgttat cgccaaatta aaataa 696

<210> 3236
 <211> 1512
 <212> DNA
 <213> B.fragilis

<220>
 <221> unsure
 <222> (1420)
 <223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3236
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 aactctgcc aactatttccg aatagagttc agccatccca ttgcagaaga aggcgtatat 120
 gacggagata cactgatgcg ccatcggccg acgttggaga gtgattatac ttgtgcctac 180
 ctacaggttta atgtgccggc gggagagaaa ttaaccgtcc gtaccgcctc ctcggtcata 240
 agtcctgcac aggcgcttgt caatttcagt cgcgaagtgg gaggcaagag ccttgcccag 300
 gtgagagaag aagcccga acaatggaac agttatctgg gacgaattga agcggaggga 360
 ggcagcgagg agcaattgcg taccttttac tcttgccctc accggaccct gctcttcccc 420
 cgcgaaatatt atgagttcga cgctcagggg aaacctgtct attacagtcc ttacaatggg 480
 aagatacagg atggctatat gtataccgac aatggattct gggatacgtt ccgtgccgtc 540
 catcccttgt ttaccttatt atatccggaa gtttccgagc gggttaccga atccatcctc 600
 aatgcttacg atgaaagtgg gttcatgccc gagtgggcca gtccaggcca ccgggaatgt 660
 atgattggta ataattccat ctcttgttg acagacgcat ggatgaaagg cattcgtacc 720
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 gcacgttttg ccgactccat tggccggaaa gagattgccg atacctatta ccggaaagcc 960
 ctcaactacc ggaaccttta ctatccgac tatggattca tgtgggcaaa agatgccaat 1020
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 tcttggcact ggacgtggag tgttctgcat gatcccgaag gcttgtctcg attgatggga 1140
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 cggccctgga agaccagaa gcacgtccgc gaagtgatgg ataagcttta tcaactccggc 1380
 agcaaaggct actgcggtga cgaagataat gggcagactn ccgctgggat gtcttttccg 1440
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 tcccgaact ga 1512

<210> 3237
 <211> 912

<212> DNA

<213> B.fragilis

<400> 3237

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cttgcccggc	tgacagcccg	tttgatagat	gccgacttca	gccgtgtaca	gtttacaccc	180
gacctgatgc	cgagtgcgct	cctgggtacg	actgttttca	atatgaaaac	caatgaattt	240
gatttccatc	ggggacctgt	ctttgccaat	atcatattgg	tagacgaaat	taaccgtgca	300
cccgccaaaa	cgcagtcggc	tcttttcgaa	gtcatggaag	aacgtcaggc	cagtatcgac	360
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gccttggtaa	aactggaaga	gatacaaccg	gtaattaccc	gtgaagaact	cctttctctt	600
cgtcgattga	cggaaaaggt	atltgttgac	cgtactctgc	ttcagtagat	tgcttctgatt	660
gccaacaaaa	cccgtaccag	taaaagctgtg	tatctgggag	cttctccccg	tgcttctggtg	720
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gaggatatta	agttttagtc	accttatgtg	ttgcagcatc	gcctgattct	gactgcggaa	840
gcaaaaatgg	aaggttattc	gcctgtcaag	gtgactcaac	ggttgattga	taaagtggaa	900
gtacccaaat	aa					912

<210> 3238

<211> 1020

<212> DNA

<213> B.fragilis

<400> 3238

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gagcaggcag	ataaaactgac	tcctgaccgt	cttgccgacg	cttatacggg	acttacggca	180
gatctcgcgt	ttgcacaaac	tcattatccg	tcttcccgcg	ttactattta	tctgaataat	240
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cgtcataccg	aattaccgga	tgttttgccg	ttgggcacat	ttctattgtc	actgtcattt	960
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<210> 3239

<211> 2679

<212> DNA

<213> B.fragilis

<400> 3239

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tcgcagggac	ttctttttcta	tgggaacgaa	aagcggatta	gtgagcgtgc	cacctattct	180
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aaaacttata	gtttttacgta	tctgcacaaa	cccggcgacc	gttggtcttt	ctccttcaac	360
gaagacggca	aacgtatctt	ttgtactttc	gaactggata	aggaagacta	tgatcaccgc	420
tggttgctcg	tttccatagc	tttggatata	cccgcagact	gtgcccgaa	tacgattggc	480

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caggaggaag	ccatcaggcg	ttatgccgcg	tttacgaaag	attatagacg	ggtgatgaac	2640
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<210> 3240

<211> 1425

<212> DNA

<213> B.fragilis

<400> 3240

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tttcttcaag	ccttttggtat	agttcgatat	taccagagat	atgaggagca	atataccgaa	180
caagtaaata	aagctttctt	agatgctatt	ggaaaagaag	tagagcttag	aatcagggtat	240
gtagaggaat	ttaagacccc	tattcttatc	aagcctaccg	gatgtgtctc	tgaaaaggaa	300
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cagattaaag	tgaaagataa	tggttgggga	attgctccga	agtatcaaaa	aaaactattc	1260
aatcagatt	atcaggtccc	ccgggaagca	ttgcgaatgc	ggaaagggta	tggtatagga	1320
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<210> 3241

<211> 642

<212> DNA

<213> B.fragilis

<400> 3241

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<210> 3242

<211> 297

<212> DNA

<213> B.fragilis

<400> 3242

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<210> 3243

<211> 1575

<212> DNA

<213> B.fragilis

<400> 3243

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<210> 3244

<211> 357

<212> DNA

<213> B.fragilis

<400> 3244

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ctaattgagcc	ggaactattc	catccgtcat	tttattcatc	actctgattc	agagaaagta	300
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<210> 3245

<211> 1794

<212> DNA

<213> B.fragilis

<400> 3245

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<210> 3246

<211> 972

<212> DNA

<213> B.fragilis

<400> 3246

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gtcatcaaaa	acaaaaacct	gtatgacctg	agagccattc	ccactcttta	tttactggat	900
aagaacaaaa	ccgtattgct	gaaagacgcc	accctgcaaa	aggtagagca	gtatctggca	960
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<210> 3247

<211> 1899

<212> DNA

<213> B.fragilis

<400> 3247

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<210> 3248

<211> 855

<212> DNA

<213> B.fragilis

<400> 3248

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<210> 3249

<211> 390

<212> DNA

<213> B.fragilis

<400> 3249

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<210> 3250

<211> 1749

<212> DNA

<213> B.fragilis

<400> 3250

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<210> 3251

<211> 1241

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (13), (14)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3251

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<210> 3252

<211> 2109

<212> DNA

<213> B.fragilis

<400> 3252

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tgttgctgcc aggtctcttac cgtttcgctt tccgccccagc agcagaaagc agataccgcc 180
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<210> 3253

<211> 1452

<212> DNA

<213> B.fragilis

<400> 3253

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<210> 3254

<211> 720

<212> DNA

<213> B.fragilis

<400> 3254

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<210> 3255

<211> 1203

<212> DNA

<213> B.fragilis

<400> 3255

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tga

1203

<210> 3256
 <211> 810
 <212> DNA
 <213> B.fragilis

<400> 3256
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<210> 3257
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 <212> DNA
 <213> B.fragilis

<400> 3257
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<210> 3258
 <211> 1230
 <212> DNA
 <213> B.fragilis

<400> 3258

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<210> 3259

<211> 903

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222>

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<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3259

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<210> 3260

<211> 765
 <212> DNA
 <213> B.fragilis

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<210> 3261
 <211> 435
 <212> DNA
 <213> B.fragilis

<400> 3261

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 <212> DNA
 <213> B.fragilis

<400> 3262

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<210> 3263
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 <212> DNA
 <213> B.fragilis

<400> 3263

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<210> 3264

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<212> DNA

<213> B.fragilis

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<210> 3265

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<212> DNA

<213> B.fragilis

<400> 3265

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<210> 3266

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<213> B.fragilis

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gggaacaaaa	tagaaaagtg	acgtaagaac	tattcgggaag	tgatcgggtc	gctgatttca	1080
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<210> 3271

<211> 1023

<212> DNA

<213> B.fragilis

<400> 3271

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ttataccgcc	agagaacttg	ctttaatgcc	cgtttttttt	tatatctttg	cagaatatatt	180
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<210> 3272

<211> 267

<212> DNA

<213> B.fragilis

<400> 3272

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atacgaaaaa	tgaatttcga	tcttccatct	tccactcttc	gttttagtag	agaacgtaaa	180
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<210> 3273

<211> 588

<212> DNA

<213> B.fragilis

<400> 3273

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aaggcccccac	gcccgcgtgac	acacgattta	ttctattcgt	gtctgaatgt	tttgggagca	240
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gagccgggtca	gcattatttc	tcttgaagaa	gcattgaata	aagccattca	agaagagaat	540
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<212> DNA

<213> B.fragilis

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gaaggtgaag	tagtggaagt	gtacacctca	aaaaaagaat	ttattgcaa	agggcatttc	180
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<212> DNA

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gccagcggta	ttatctatgg	actggctttc	tttctttttc	tcagcggact	gttacgaaaa	420
tatatccctt	tgattgccat	atctctatta	gttacctttc	tctatggagg	tcttatatgg	480
aatatgtctc	cctattttac	accatccggc	atttcgtggg	aagggcattt	aagcggagct	540
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<220>

<221> unsure

<222>

(26), (149), (157), (163), (270), (274), (354), (376), (393), (406), (465), (512), (543), (544), (558), (584), (585), (629), (666), (667), (701), (703), (708), (716), (717), (726), (727), (729), (730), (732), (734), (741), (742), (743), (744), (745), (747), (748), (750), (751), (752), (756), (757), (759), (761), (762), (763), (765), (766), (767), (768), (769), (770), (771), (772), (773), (775), (776), (777), (778), (779), (780), (781), (782), (783), (784), (785), (786), (787), (788), (790), (791)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3280

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aagaagagaa	aaaggggaaag	aaagaaaaaa	agagagagag	gaaagaaaaa	agagagagaa	120
agaaaaagag	aaaaggggga	gaaaaagana	aagaagnggg	ggnagaggaa	aggggaaagg	180
gggaaagaag	aaggaggaaa	ggaaagagga	aaagagaaga	aggaaaagga	agggaagggg	240
aaagaaaaga	agaggggaaa	aagggaaggn	aagngaaaag	gagaaaaaaa	aaggaaaagg	300
agagaggaaa	aaaagaaaaa	gggggaaaaa	aggaaaaaaa	aagaaagaag	aagngaaagg	360
aagaaaagg	aagaanggaa	aaaaaggaga	agngggaaga	aggaanaaag	ggagagaagg	420
ggagggagag	ggaaagagag	gaggggaagag	aaaaaggaag	aaggnggagg	gataaggaga	480
aaaaggagag	gaaaggaagg	aaggaagggg	anagaaaggg	aagaaggaga	aaaggagggg	540
aannggaaag	aaaggaanga	aaaggaagag	aaaaggaaaag	gggnnaaaaa	aaggagaaga	600
aaggggaaag	gggaggaaaa	aaaagaggna	gaaaaagggg	gggaagggga	aaaagaaaaa	660
gagggngnag	aaggaagaga	gaaagagaag	gggggggagg	ngnagggnga	aggggngngg	720
gagggngnnn	gngngggggg	nnnnngnngn	nnaagngngg	nnngnnnnnn	nnnannnnnn	780
nnnnnnnnn	n					791

<210> 3281

<211> 1221

<212> DNA

<213> B. fragilis

<400> 3281

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gcacaattct	acaaagatgt	agttcccatc	tttaccgaag	gggatagctt	tatgaagaaa	180
gattatatga	cagctactaa	gaaaatcagt	acgctgggat	cttttgcggg	caagagtaac	240
actttttcgt	ctgaggaaat	agaggaactg	aagaaacaac	cgttcacccg	gagcgtagg	300
gctttcactc	cttcgcaatt	taaagtctcc	gcaggattgg	gaatgcagga	agcaggaatt	360
cacctttcta	ccgaaatgtt	ctttgaggcc	gttcctgata	agtttgtaga	cgtcagcctc	420
gataaatggc	attttgatga	aaacacgcac	accatcccta	tcattcattcc	gcgcaattat	480
ctgaatttat	ataacttcgg	atttgcccag	agccgaagcc	tgccataaact	atcggaagg	540
ttgatgagcc	tgatccaaat	ggatattctg	atgcggggca	acggacgggt	tgagcaatat	600
aaaggaaaca	tcgtcggctt	ttccaaccgg	ttgaatacta	ttttgggtcc	acaatctttt	660
atgaactggg	ctaaccaaaa	ctttgcaccg	gatagccagc	cggacccttc	acggctgatt	720
attgaagtag	acaatcccgc	tgatgcctcc	attgcaaagt	atttccaaca	aaagggttat	780
gagacagaag	acggaaaaact	ggacgcggg	aaaaccactt	attttctgcg	tctgattgtg	840
ggtattgtcc	ttgcagtggg	actatttatc	agcatactct	ctttctacat	tctgatgtc	900
agcatttttc	tgctttttaca	aaagaacacc	gtgaaactgg	aaagtttact	tctgatagg	960
tacagccctt	caagagtagc	actcccctat	cagattctta	cattaggact	caatattgtt	1020
gtactgttac	tatccgtcgg	cattgtttcg	tgggcacgca	cctcttatct	tacgacactg	1080
aacctgttgt	ttccacaaat	gtctgtcgga	tctctctggc	caactttcgc	cataggtata	1140
tttttattct	tattggtgtc	ttccatcaac	gttattatac	tgaaaaagaa	gatgttgtca	1200
atatggatac	acaaagcata	g				1221

<210> 3282

<211> 1170

<212> DNA

<213> B. fragilis

<400> 3282

acaataactg	aatgaaaca	aacaaaaacg	atTTTTagcag	tcattctgtt	ggtggtatta	60
gtggggtgtg	gagaaaatat	acagtcaaac	aatgatttaa	tcattgttga	cgtttcgaaa	120
agttatccta	aaaaagaatt	gattcttcag	gactttatgg	atgtagaata	tgttgcgttg	180
gagaccactg	acgagtttct	tacacaaggt	ctggtgcagg	atgtgggaaa	agaatacata	240
ttggcaacaa	ataggaataa	tgatggggat	atTTTTatTT	ttgacagaaa	aaccggtaag	300
ggagtgagga	agataaatcg	tcggggggcaa	ggagcagaag	aatatgcgag	gattaatgag	360
attattcttg	atgaaaacaa	tgggtgaaata	ttcgtaaagt	caccgggaaa	taaaatctta	420
gtgtatgatc	tttatggaaa	gttcaaacgg	tgtttgagtc	ttgatcgggg	agtttcatct	480
atTTtcgatt	atgacaaaga	taatttgatt	tgctatgata	tgtcagatta	tcacagtaaa	540
ggagaggata	gaaccaaadc	ataccatatt	atcctatcaa	aacaggatgg	aagtatcacc	600
cgtgatattt	ttattccttt	caaaacgatt	gatacaccaa	ttgtgaatga	tggagatagg	660
tttatagcaa	attattctta	tcagatacgc	ctgagtaacg	ggaaatgtac	acttatggat	720
acatcggctg	atacattgta	taactatgcg	tcggatggta	cattaagtcc	ttttgttgta	780
agaactcctt	ctgcacatac	catggaaccg	gaagtttttc	tttatatggg	tatccatacc	840
gaccgttatt	actttatgga	agccgttaaa	aatgtattta	actttgaaaa	gggcaacgga	900
ttctatgctg	atgaactggt	gtatgacaaa	gaagaaaagg	cggtatttca	agttaccata	960
tacaatgatg	actatgtgga	caaaagaaca	gtggctatga	cagcgaaacc	aattaatcgt	1020
gaaattgaag	acgtcacaaag	tctaaatgca	gcccgaactg	ttgaaattta	taagaaagac	1080
caactgaaag	atggtaaatt	gaaagaaata	gcctctaggt	tgaatgaaga	agataatccg	1140
gtgattatgt	tagtaaaaaca	aaaaaaataa				1170

<210> 3283

<211> 531

<212> DNA

<213> B. fragilis

<400> 3283

aagaagaatg	aatgtatgaa	gaaatacctt	tttaatctgt	tactttttcac	cgctcctagtt	60
atcggcctga	gtggctgccg	cacctctgct	cccaaactag	actataagaa	attggcccgt	120
gcttctgtac	gcttgggctg	agacatcgga	atggaggata	accataaact	ctacctggaa	180
gcagccgaat	ggataggtac	cccctaccgg	ggaggcggag	agaccaaacg	tggcacagac	240
tgctcgggaa	tgacctgcca	gattttataaa	aaggatatatc	atatcaaact	gcaacgaagc	300
acagacggtc	agaagaaaga	gagcagtaaa	gttgccccggc	gaaatcttcg	ggaagggtgat	360
ctggatattt	tcagtagccg	gaaatcgcg	agaaaagtgg	cacacgtggg	catctatctc	420
aaagacggaa	agtttgttca	tgccagcacc	agccagggag	tcattgtcag	cagtctcaat	480
gaaccctatt	accggactca	ctggatatcg	ggaggcagag	tacgcaaata	a	531

<210> 3284

<211> 1401

<212> DNA

<213> B. fragilis

<400> 3284

aacaatatag	atatgagaac	aatctgtctt	tatttttgaga	tacatcaaact	tattcatctg	60
aaacgttacc	gcttcttcga	cattgggtgcc	gaccattatt	actatgatga	ttatgccaat	120
gagacaggta	ttaatgaggt	tgccgaacgt	tcttatattc	cggctctcaa	tacattgatt	180
gaaatggtga	agaattccgg	aggagcattt	aaagtagccc	tttctatttc	gggagtagca	240
ttggaacagc	tcgaaattca	tgcacctgcc	gtaattgacc	tgttacatat	attaaacgat	300
acgggttgct	gtgaattcct	ggcagagcca	tactctcatg	gcttatcatc	attggccaat	360
gaagactggt	tccgtgaaga	ggtaatgctg	cagagcgaaa	agatgaaaca	gatgtttggt	420
aaagctccga	aagtgttccg	taactccagc	ttgatttatt	cggatgaaat	aggtgctacg	480
gtggctagca	tgggtttcaa	aggcatgctg	accgaagggtg	ctaaacacgt	tttgggttgg	540
aagagtccgc	attacgtgta	tcattgcaat	caggctccaa	gtctgaaatt	gttattaaga	600
gacttcaagt	tatcggatga	tatcagtttg	cgcttctcta	actctgattg	gagtgagtat	660
cctttatttg	ccgataagtt	tatcgggttg	attgatgctt	taccacaaga	agaacaagtg	720
atcaatatct	ttatggaaact	gaaagcattg	ggtatggcgc	agccattatc	atccaatatt	780

ttggagttct	tgaaggcact	tccttattgt	gcaaaagaaa	agggcattac	tttctctacc	840
ccatcgagaga	ttatttcgaa	attgaaatct	gtttcccaat	tggatgtacc	atatccaatg	900
tcgtgggtag	acgaagaaag	agatacgagc	agctggctgg	gtaatgtttt	gcagcgtgaa	960
gctttcagca	aattatacag	tgtggctgaa	cgtgtacacc	tttgcgatga	tcgtcgtatc	1020
aagcaggatt	gggattatct	gcaagccagc	aataacttcc	gttttatgac	gaccaagaat	1080
accggtgtgt	ggctgaatcg	tggatatttat	gattctcctt	atgatgcctt	tactaactat	1140
atgaatatct	tgggggattt	cattaaacgt	gtaaattctc	tctatcctga	ggatatcgat	1200
aatgaagagt	tgaattcatt	gttgacaact	atcaagaacc	agggagaaga	gatcgccgaa	1260
ttacataagg	aggttgataa	gttgacaggca	aaagcggaaa	aggctgcaaa	aacagtaaag	1320
gccgaaccca	aagctgcacc	taaaaaggcc	gctgcgaaga	aacctgctgc	aaagaaagca	1380
acggcaaaaa	aagaagatta	a				1401

<210> 3285

<211> 186

<212> DNA

<213> B.fragilis

<400> 3285

gggttaacag	atgcttgtaa	gaatgcgttt	gccgtgccgc	tgacaaaaga	ggctaccaga	60
aaaagaggaa	aactctcctg	gctggccgat	ggaatgtaca	aaccgaaagc	tacagcgaac	120
atggcaaacg	aaagtgccat	ggtgtgtttg	tatccgatag	ctttgatagt	catcgaagcc	180
ggatag						186

<210> 3286

<211> 366

<212> DNA

<213> B.fragilis

<400> 3286

gtgattaaag	accacccgac	ggagctaact	tacatttatt	tatataagat	gtacgcaatt	60
gtagaaatca	acggtcagca	atttaaagct	gaagctggcc	aaaaattggt	cgttcaccac	120
attcagaatg	cagagaacgg	tgcaacagta	gaatttgaca	aagttctttt	ggtagacaaa	180
gacggaaacg	ttactgtagg	tgctcctact	gtagacggtg	caaaagtagt	ttgccagatt	240
gtttcaagcc	tggttaaagg	tgacaaagtt	cttgttttcc	acaagaaaag	aagaaaagggt	300
cacagaaagt	tgaacgggtca	ccgtcagcag	ttcacagagt	taacaatcac	agaagtagta	360
gcttaa						366

<210> 3287

<211> 475

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (26), (149), (157), (163), (270), (274), (354), (376), (393), (406), (465)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3287

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aagaagagaa	aaaggggaaag	aaagaaaaaa	agagagagag	gaaagaaaaa	agagagagaa	120
agaaaaagag	aaaagggggga	gaaaaagana	aagaagnggg	ggnagaggaa	aggggaaagg	180
gggaaagaag	aaggaggaaa	ggaaagagga	aaagagaaga	aggaaaagga	agggaaaggga	240
aaagaaaaga	agaggggaaaa	aagggaaggn	aagngaaaaag	gagaaaaaaa	aaggaaaagg	300
agagaggaaa	aaaagaaaaa	gggggaaaaa	aggaaaaaaa	aagaaaagaag	aagngaaagg	360
aagaaaaggg	aagaanggaa	aaaaaggaga	agnggggaaga	aggaanaaag	ggagagaagg	420
ggagggagag	ggaaagagag	gagggaagag	aaaaagggaag	aaggnggagg	gataa	475

<210> 3288

<211> 1800

<212> DNA
<213> B. fragilis

<400> 3288

ttattaatgg	aaaacttaaa	gaacgttgct	cctattgaag	acttcaactg	ggatgcgtat	60
gaaaacggcg	agagcttcgc	tgggtgccagc	cacgaagaac	tcgaaaaagc	ttacgacggt	120
acgcttaaca	aagtaaata	cggtagggtt	gttgacggaa	ctgtaatcgc	aatgaacaaa	180
cgtgaagtgt	ttgtgaacat	cggttacaaa	tcagacggta	tcattccctt	gaatgaattc	240
cgctacaatc	ctgatttgaa	agtaggtgat	actggtgaag	tatacatcga	aaatcaggaa	300
gacaaaaaag	gacagttggt	tctgtcacac	agaaaagctc	gcgctactcg	ctcttgggat	360
cgcgttaatg	ctgctctgga	aaacgaagaa	attatcaagg	gttacatcaa	gtgtcgcact	420
aagggtggtg	tgatcgttga	cgtattcggg	atcgaagcat	tcttgccggg	ttctcagatc	480
gacgtgaaac	cgatccgtga	ctatgatgta	ttcgttgcca	aaacaatgga	attcaaagtg	540
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gaactggaac	aacagaagaa	agaaattatc	ggtaagctcg	aaaaaggaca	agttcttgaa	660
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ctggatcaga	agttgaacgt	tgttatcctc	gacttcgatg	acgagaagaa	acgtatcgct	840
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ggtgacaaag	tgaaaggtaa	agtagtggtt	atggctgact	acggtgcatt	catcgaaatc	960
gctccgggtg	ttgaagggtc	gatccacggt	tcagaaatgt	catggtcaca	gcatttgctg	1020
tctgcacaag	acttcatgaa	agtcggtgac	gaagtagaag	ctgtagttct	gactttggat	1080
cgcaagaac	gtaagatgtc	tttgggtatc	aaacaactga	aacaagatcc	atgggaaact	1140
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ttcgggtgat	tcgtagaaat	cgaagaaggt	gttgacggac	tgatccacat	ctctgacctt	1260
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ttcgtactc	cgaaacatct	cgttaaagaa	gacggttcac	aggctcagat	ggacgagaaa	1560
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gcaaagaaat	cttctaagag	agaagaaact	cctgctatcc	agaaccaggc	tgcttctaca	1740
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<210> 3289
<211> 1941
<212> DNA
<213> B. fragilis

<400> 3289

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gataaaacaa	gggaagacgt	attgtttcta	aattctatca	atttcaacct	tccatgggca	180
aaggatgtgt	tctggtatac	gcaccaagcc	ctgcaaaaga	agaatatctc	cgtaaaggcc	240
gagtcctttt	cgggtgccgc	tttgtgtaac	cgtaaagaag	cagcagccgt	agtagagcag	300
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attgttttgc	gtgaactttt	tgatgatgtc	tgggaaggatg	taccgggtcat	cattaccaac	420
gcccgcgacc	gtctgcccgc	tacactcgac	atcttgcttt	cacacgaaga	gctgaccgaa	480
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gtatattatg	tgaagaaac	catcggaactg	atgcggcagc	tgatgccgga	tatgaagcgt	600
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gcaatgaccg	gatcttttcc	ggagttggcc	tttgaacagc	tgtccaccag	gaatatttct	720
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ctgattcatc	gtgtcctgga	aggtgagttt	ccgcgagaca	ttcctcccgc	tctcggaggga	1020
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tatccgaaag	aggctgtgta	cattaatctg	cctgtcagct	tcttcgagca	gtataagaag	1140
gagattctga	tgactgttgt	cttgctgctg	gtgggtggtca	gtgccgtagg	ctattatatt	1200
catattctta	aaagagccca	tcagcgaatg	aaagaagcgc	agctgaaagc	cgaggaagcc	1260
aatcagctta	aatcggcctt	tctggctaata	atgagtcag	agatacgtac	tcctctcaat	1320
gccattgtcg	gtttctcgaa	tctgctttct	atggtagaag	ataaagaaga	aatgctggag	1380
tatgccggta	ttatcgaaac	caataccgaa	cttttgcttc	aactgattaa	cgatattctg	1440
gatatgtcga	agatagaatc	cggaatgtat	gactttcatg	tgactcaggt	ggatgccaat	1500
cagttgatgt	cggagtcga	acaggtagcc	cgtttgcgta	tcaggacaga	cgaagtctcc	1560
ctctcgtttg	ccgaacgttt	accccaatgt	gttttccata	ctgataagaa	ccgcttgata	1620
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atcgggtatc	ggctgcaaga	tgcccatacg	ttatacttct	atgtatccga	taccggttgt	1740
ggatatgtccg	tcgagcaatg	cgaacatggt	tttgagcgct	ttgtcaaata	caacactttt	1800
atacaaggca	ccggattggg	actgtctatc	tgcaaaatga	ttattgagaa	gttggggggc	1860
gagatcgggg	ttcagtcga	gtccggaaaa	ggttctgtct	tttggttcac	tcttccttac	1920
cgggcttcgg	cctctttgta	a				1941

<210> 3290

<211> 657

<212> DNA

<213> B.fragilis

<400> 3290

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cgtaattcga	taacttcgga	tgtatggcat	cggaatcttg	ttttccataa	aggaaaatct	120
tacctgatcg	aggctgcctc	cggtagccgg	aatcatcgt	tgtgcagcta	catctacggc	180
taccgaaacg	actatcaggg	aatcatcaac	ttcgacgaaa	ccaatatcaa	agcataccgg	240
gtgaagcaat	gggtggaaat	cgggaagcat	tcactgagta	tgctttttca	ggattttacgc	300
atttttacgg	agttgaccgc	catcgaaaac	atccgactaa	agaataacct	gaccggatat	360
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gtgaaggcag	gcaaaactttc	tttcggacaa	caacagcgag	tggcggttcat	ccgatcgctt	480
tgtcaacctt	tcgacttcat	tttctcggac	gagcccatca	gtcattttgga	cgacaacaat	540
gcacgtatta	tgggagaact	ggtaatggaa	gaagccagca	aacaaggggc	gggaatcatc	600
gtaacgtcca	tcggcaagca	tatcgagtta	acgtatgaca	gaatattgaa	attatga	657

<210> 3291

<211> 2223

<212> DNA

<213> B.fragilis

<400> 3291

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<211> 963

<212> DNA

<213> B.fragilis

<400> 3292

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ggaatacagc	cgggtggaca	gttgactacc	actaccgatg	tagaaaactt	cccgggctat	180
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taa						963

<210> 3293

<211> 714

<212> DNA

<213> B.fragilis

<400> 3293

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gaattcggtta	cagtagccgc	cgagttctgc	gcttttttgg	aacgtgccga	aagtatgaaa	180
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atttacgaag	tggtgcat	caacctggca	tccatattgg	cagaaaaaga	cgattatctg	360
gaagtatttc	taccgcacat	ggcttacagt	gacgaaccga	tcaaaaaagaa	tatttcggaa	420
gatctggccg	atatctatca	ggatatcaaa	gactttatct	tctgtattcca	gctgggattg	480
aacgagacga	tgaacgattc	cctcgccatc	tgccaagaaa	acttcgggact	cttgtgggga	540

caaaaactgg	taaacacccat	gcgtgccctg	catgacgtaa	aatatagtcc	gaaagcccgg	600
ggagaagacg	aagaggaaga	agagtacgaa	cccgaataca	atgaagactg	tcactgtgaa	660
gatgacgact	gccattgtca	cgatcatggc	tgccattgcc	atgatgatga	ataa	714

<210> 3294

<211> 909

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222>

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<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3294

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agaaaaagag	aaaaggggga	gaaaaagana	aagaagnggg	ggnagaggaa	aggggaaagg	180
gggaaagaag	aaggaggaaa	ggaaagagga	aaagagaaga	aggaaaagga	aggggaaggga	240
aaagaaaaga	agaggggaaaa	aaggggaagg	aagngaaaaa	gagaaaaaaa	aagggaagggg	300
agagaggaaa	aaaagaaaaa	gggggaaaaa	aggaaaaaaa	aagaaagaag	aagngaaagg	360
aagaaaagg	aagaanggaa	aaaaaggaga	agnggggaag	aggaanaaag	ggagagaagg	420
ggagggagag	ggaaagagag	gaggggaagag	aaaaagggaag	aagngggagg	gataaggaga	480
aaaaggagag	gaaagggaag	aaggaaggga	anagaaagg	aagaaggaga	aaaggagggg	540
aannggaaag	aaagggaaga	aaaagggaag	aaaagggaag	gggnnaaaaa	aaggagaaga	600
aaggggaaag	gggaggaaaa	aaaaggagga	gaaaaagggg	gggaaggggg	aaaagaaaaa	660
gagggngnag	aagggaagaga	gaaagagaag	gggggggagg	ngnaggngga	aggggngggg	720
gagggngngn	gngngggggg	nnnnngngng	nnaagngng	nnngnnnnnn	nnnnnnnnnn	780
nnnnnnntn	ncnnnnnnan	nnnnngnnnn	nnncaccccc	atgtcagcac	tcctaaagtc	840
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tgcttataa						909

<210> 3295

<211> 531

<212> DNA

<213> B.fragilis

<400> 3295

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tctaagaaga	agagaggaga	agaacgtatg	aaagaagaag	ataacatatt	gaagaaagtg	180
gggaagaaga	attcctttaa	agtgcctgaa	gggtactttg	aaaacttgac	ttcagaggtc	240
atggggaaac	tgccggaaaa	agaaggctct	gcctttgaag	aagtgaagca	acccacgatg	300
tgatcagga	tgaagccctt	gctctatatg	gcggctatgt	ttataggggc	tgcatatgat	360
atccgtgtag	cttcttcgaa	ccaccaaccg	acaactgccg	gtgatcatct	cactgcaaat	420
gaagcagcga	cagaagtggg	ttcggatgaa	tatattgatg	tagcattaga	tcgctcgatg	480
ttggacgatt	actcattgta	cgtctacctt	agtgatgcga	cagccgaata	a	531

<210> 3296

<211> 225

<212> DNA

<213> B.fragilis

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<210> 3297
<211> 402
<212> DNA
<213> B.fragilis
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<220>
<221> unsure
<222>
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<223> Identity of nucleotide sequences at the above locations are unknown.
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<210> 3298
<211> 1296
<212> DNA
<213> B.fragilis
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gatatggaga	ttacattttg	tattcccaag	ccttggggtg	acgaagacca	gagttttctg				180
agaataatcg	gtatgaacag	tacaccgatt	gtgtggaggg	atgtagattg	ggaatatgtc				240
aaagggcgtg	taggctctta	catggatcct	caattatatt	ttgacttgcg	cgaccatatt				300
tatgctgatt	tcaattatct	gaatgcaaat	gatctgggat	gcattgaatt	ttcagggcgt				360
tatccggata	acttacatga	ggaaatcaat	aactactcaa	ttgttgcagg	agttatagca				420
cggcaacagg	agtttgaaat	tatacactca	catgactggg	tgacttatcc	ggccgggtatt				480
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gccgatcata	ttatgtgtgt	gagtgaatta	actcgtcaaa	cagtaatcca	taaataatttc				660
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gcagctgaaa	gaggtattgc	cgatcgtttc	cattttccgg	gattcatgaa	agggaacaaa				960
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ggtatattctc	cgttggaggc	tatgcagtgt	agcgtaccaa	gcattatttc	caaacaatcc				1080
ggttgtgccg	agatccttga	aaaatgtatc	aagaccgatt	actgggatat	ccacgctatg				1140
gcagatgcta	tttattctat	ctgtacctat	cgggctatgt	acgagtatct	ccgtgatgaa				1200
ggtaagaaag	aggtggacga	aataaagtgg	gagaacgtag	gctacaaggt	tcgcggcatc				1260

tacgacgagg ttataaaaaa ttatggaaaa caataa

1296

<210> 3299
 <211> 2460
 <212> DNA
 <213> B.fragilis

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 ccaaaccaaa tgattcccca acagggacgg ttcgaaataa gtaaaaaagt aagagtcata 180
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 atcaaaatca ctcttcaaaa tgggtgtact ttacgaaacg gcattgattt cgtgaaagac 2400
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<210> 3300
 <211> 258
 <212> DNA
 <213> B.fragilis

<400> 3300
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 aaatatgaat ttattagtcg cataatcgga ttttttttat atttgccttc aataaggaga 180

ttagtatttg aggtgcaata tattaatatg gtgtttttgg ttattctcgc tctgttttgt 240
tcaaaaggga gtggctaa 258

<210> 3301
<211> 1950
<212> DNA
<213> B.fragilis

<400> 3301
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gatgcacact cagctaccac tcttcgtttt cgtccgttcc ttgctttccg tagtgtacgc 480
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<210> 3302
<211> 2238
<212> DNA
<213> B.fragilis

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<210> 3303

<211> 717

<212> DNA

<213> B.fragilis

<400> 3303

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gccggaaaaa	caactttggt	ccgttttaag	ctggacctgc	tgaaagctga	taccgggtgaa	180
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gatgtctgtc	ctcgtattgc	cgtgcttgag	catggagtca	ttatccgtga	ccttgtaaac	660
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<210> 3304

<211> 1284

<212> DNA

<213> B.fragilis

<400> 3304

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tcgaaaacga	tcggtcagtt	gatgaaagaa	ggcaaaaagg	aagaagctga	agttgcaaaa	240
gcccgtgtag	ccgagataaa	ggagagcaat	aaaacactgc	aggccgacat	ggaccaggct	300

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<210> 3305

<211> 699

<212> DNA

<213> B.fragilis

<400> 3305

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accgacggaa	agggaaactt	ctatcgggca	gagatcagcg	tggcaacca	taaactgtgc	180
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aaagcaatcg	agaaaggatt	tgtccctatt	agtttaggca	aatcgcgact	gcgcacagaa	660
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<210> 3306

<211> 1491

<212> DNA

<213> B.fragilis

<400> 3306

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gtaatacgtt	tcccattcca	aaaaactcct	acacaagaag	taaaacctta	cctgctactt	300
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<210> 3307

<211> 795

<212> DNA

<213> B.fragilis

<400> 3307

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ggtaaaaatc	taaaagatat	gagcctggat	gaaatggatg	ccatctggaa	cgaagctaaa	780
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<210> 3308

<211> 651

<212> DNA

<213> B.fragilis

<400> 3308

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<210> 3309

<211> 2655

<212> DNA

<213> B.fragilis

<400> 3309

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cgtgaacctt	acaccatcgt	cattccgccc	cctaaccgtca	ccggtgtgtt	gcacatggga	180
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<210> 3310

<211> 954

<212> DNA

<213> B. fragilis

<400> 3310

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<210> 3311

<211> 1581

<212> DNA

<213> B.fragilis

<400> 3311

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<210> 3312

<211> 576

<212> DNA

<213> B.fragilis

<400> 3312

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<210> 3313

<211> 657

<212> DNA
<213> B.fragilis

<400> 3313

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<210> 3314
<211> 864
<212> DNA
<213> B.fragilis

<400> 3314

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<210> 3315
<211> 2517
<212> DNA
<213> B.fragilis

<400> 3315

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<210> 3316

<211> 405

<212> DNA

<213> B.fragilis

<400> 3316

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<210> 3317

<211> 933

<212> DNA

<213> B.fragilis

<400> 3317

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<210> 3318

<211> 867

<212> DNA

<213> B.fragilis

<400> 3318

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<210> 3319

<211> 972

<212> DNA

<213> B.fragilis

<400> 3319

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<210> 3320

<211> 810

<212> DNA

<213> B.fragilis

<400> 3320

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<210> 3321

<211> 498

<212> DNA

<213> B.fragilis

<400> 3321

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<210> 3322

<211> 876

<212> DNA

<213> B.fragilis

<400> 3322

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<210> 3323

<211> 1293

<212> DNA

<213> B.fragilis

<400> 3323

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<210> 3324

<211> 852

<212> DNA

<213> B.fragilis

<400> 3324

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<210> 3325

<211> 1017

<212> DNA

<213> B.fragilis

<400> 3325

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<210> 3326

<211> 1683

<212> DNA

<213> B.fragilis

<400> 3326

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<210> 3327

<211> 2907

<212> DNA

<213> B.fragilis

<400> 3327

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<210> 3328

<211> 531

<212> DNA

<213> B.fragilis

<400> 3328

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<210> 3329

<211> 189
 <212> DNA
 <213> B.fragilis

<400> 3329

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 <212> DNA
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<400> 3330

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<210> 3331
 <211> 753
 <212> DNA
 <213> B.fragilis

<400> 3331

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<210> 3332
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<212> DNA

<213> B.fragilis

<400> 3332

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<210> 3333

<211> 1296

<212> DNA

<213> B.fragilis

<400> 3333

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tggaaggcg	aatacactta	ccgttgatt	ctgaccaacg	attacaagtc	atcgacaagg	960
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cctgccaaagt	ggatcatgac	tgcaaggcaa	tacgtgctga	atatctacac	agagaaccga	1260
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<210> 3334

<211> 405

<212> DNA

<213> B.fragilis

<400> 3334

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atcaaattgg	cggctctcga	gtatgaagag	gagaagatgg	cctgcttcat	ggagcagggc	180

gaagcagtgg	gagcgggtttc	gtggggcacc	gattttctgc	cttctgagcg	gggaacgctg	240
attcatttct	attgcgaaga	gacgggcaag	tcgctggaac	gtgtcctgca	gaaaggtggg	300
aaagtcatta	cccccgagac	ggagattgac	gctgaaggca	ggggacattt	cgctgttttt	360
gccgatagcg	aaggaaacca	tatcggtttg	tattcggata	aatag		405

<210> 3335
 <211> 771
 <212> DNA
 <213> B.fragilis

<400> 3335						
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gccggtgccg	acaagatttc	catcaactct	tccgctatcc	gtcatccgca	gttgatcgat	360
gatattgcc	agcatttcgg	gtcgcaggta	tgtgtgcttg	cggtagatgc	caagcagact	420
gagaacgggt	ggaagtgtta	tctcaatggc	ggacgtatcg	aaaccgacaa	ggaattgacg	480
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cacgatggag	tgaagaccgg	atacgccaat	gaagccctgg	cggagctggc	ttcccaactc	600
tccatacccg	ttatcgcatc	gggcggagca	ggccggatgg	agcacttccg	cgatgctttt	660
acacttggt	aagcagatgc	cgactgggca	gccagtgttt	ttcacttcgg	agaaattaaa	720
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<210> 3336
 <211> 561
 <212> DNA
 <213> B.fragilis

<400> 3336						
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ttcaccgcct	ctatggatat	tgaggaaatt	gtgcagggaag	tatttgtaga	agtatgggaa	180
tctcatcatt	tcttggatga	aaacaaaagt	tttgaaggct	acctctttat	cataaccgca	240
aacgtgatct	tcaatcattc	acgtaggtat	tacaaagaga	cagccctcaa	aataacagct	300
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agcaggggaac	tgacatgag	caacagagaa	atagcagaa	acttctctat	tactgaaaaa	480
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<210> 3337
 <211> 252
 <212> DNA
 <213> B.fragilis

<400> 3337						
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ctgagaaact	cacacctttt	ggaggaattt	tttcaatcat	ggagaaattt	gactccatgc	180
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tcagcagagat	ag					252

<210> 3338
 <211> 585
 <212> DNA
 <213> B.fragilis

<400> 3338

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agtaaaggag	gatttatctc	ttccgatagt	accaatccca	acatccggca	actttatacg	120
gtgattgaag	acaaccagtc	ggagttgtac	gacttctttg	ccgccatcaa	cttcgtgctc	180
gaaagcggaa	acgaatacta	ttatttttcc	cgtcgcgaga	ataaagtcga	cttggaacgt	240
aagttggaga	ttgctgtccg	ttggattgat	gtactcgact	ttatcaagac	ttatgatgcg	300
gccttttcat	ccggattccg	ttttcagccg	gccgatatgg	ttgtgaaagt	gggaaccgac	360
ttagagttga	aagagaagct	taccggcctg	aaaaagctta	ccggacggga	aaagcatgaa	420
gagatgattg	acaaaatagt	aaacgacctg	aaacgtgacg	gctttattga	actggaaaat	480
gagattactt	ccacctataa	ggtagtggcg	gctttcgggt	atctggaaga	gttggtcgct	540
tgcatthaaca	taccagaaga	gatacagaat	gagataacctg	aataa		585

<210> 3339

<211> 618

<212> DNA

<213> B. fragilis

<400> 3339

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agtgaatca	agtacatagt	caaaacagta	gccccactt	tagatgcggg	ctgctctttg	180
ggtgggtttcc	gtactctgcc	ggactacagt	ttcgacaacc	ttccttccga	ttataccgcc	240
ttggtcctaa	ttggtggtat	gcaatggcag	tctgccgaag	cagaacgtgt	atttcccatc	300
gtgcaggatg	ctttcgaaaa	agggaaaagt	attggcggca	tctgtaacgc	tgcttcattt	360
ttgtgcgccc	atggtttcct	gaacaagggt	aaacataccg	gaaacaccct	tgccgtgctc	420
aaacaatggg	gcggggaacg	atataccaac	gaggatgggt	acctggaaaa	gcaagctgtc	480
ggcgataaga	acatagttac	ggcaaattgg	accggttatc	tggaattcac	ccgtgagctg	540
ctattagcat	tgaagcgga	tacgcaggaa	aagatagaag	cattttatga	tttcagtaaa	600
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<210> 3340

<211> 3381

<212> DNA

<213> B. fragilis

<220>

<221> unsure

<222> (2997), (3209)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3340

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tataacgcta	atgatttgaa	aaacacaact	cttaagagta	tcgattgtaa	aggttctatt	240
gatgacgtct	tgaacgaagt	ctttaaaagg	agtaatatca	gttatgttat	taaagggaa	300
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caaaaggtaa	tgtctatcac	tcttgccgaa	gatgcccgac	aactggatga	gggtggtggtc	600
actgcttttg	gtacgggaca	gaaaaaggag	actatcaccg	gacgatttca	gtcgggttcgt	660
ccttcggatc	ttctggtacc	ttctgccaac	ctttcttctt	catttgccgg	acgcttgctg	720
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aaaacaaaat	cgggaagtga	cttgacacaga	ccgatcatcg	gcgtacgttt	agaaggctat	1020
gtaaatactc	cgactaagaa	accggaaatt	gttgacggac	ccacttatat	gcgtttgtac	1080

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 ggtacgattc ataatctgaa tccttatatt tatcctaattg tggactggta caaggaggtc 1200
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 gcaagaatct atgtgaacgg aagtaacttg ttgacctttt ctccatttaa gctatgggat 3300
 cctgaaatgg gtggaggtgc cggatgaaa taccgcacac aacgtacata taatgttggg 3360
 attcaattaa cttttaaata a 3381

<210> 3341

<211> 309

<212> DNA

<213> B. fragilis

<400> 3341

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 ttgttgcaat atgcacacgc ccgcctggac cactgtccct tcggggagaa aaagaaagca 180
 tgcaagcagt gcagcatata ctgctacaaa cccgccatgc gggaacagat gagacgggtg 240
 atgcgctttt ccggtccccg gatgctgatt tacgctcctt gggaggcaat caagcatctg 300
 ttgggatag 309

<210> 3342

<211> 270

<212> DNA

<213> B. fragilis

<400> 3342

cacaaaataa	atctaaatat	aattattaaa	atgaataaaa	gtaacaaaaga	aactaatctg	60
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aatttaatat	aaaaacaaat	gagaaaacaa	tggaagaaa	ataagaatac	tccggtagaa	180
aatgagattg	gaaataagat	atgggacaag	atcgagaacc	aatgcataaa	agttcacaaa	240
agaatagttc	ctttagaact	tatccaataa				270

<210> 3343

<211> 291

<212> DNA

<213> B.fragilis

<400> 3343

cctattaaaa	acagaaaaag	aatggaacag	aaattttgcc	agagctgcgg	catgccgctc	60
aacccggaag	tattgggaac	agaaaaggat	ggtagcaaaa	acgaagagta	ttgcacctat	120
tggttatgccg	acggacattt	caccgtggaa	tgcacgatgg	acgaaatgat	taaccaatgc	180
gcacagttcg	tagacgaatt	caataaaggc	tcggaagtga	aatgacgaa	ggaagaggcc	240
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<210> 3344

<211> 864

<212> DNA

<213> B.fragilis

<400> 3344

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agtgtgcccg	gtattcatca	cgatgtagat	ctgaacgtat	tcaacggttc	gctcgaagag	840
ctgaggaaga	tgacgatgag	atga				864

<210> 3345

<211> 414

<212> DNA

<213> B.fragilis

<400> 3345

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tcggaaggta	tttctgagat	ttggatggca	accggggaac	attctgtgaa	aacgaaagat	180
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<210> 3346

<211> 909

<212> DNA

<213> B.fragilis

<400> 3346

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ctgtcggctg	aagccaaagc	cggtgctatc	aaattgaaat	ggaccgtacc	agccgattct	180
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cactatattg	tggtcgactt	gggtgaagag	aatgctttgt	ccactttcct	gttctcttat	600
gtttgtcgtg	acaataacaa	taaagacaat	cccaaagaga	tggatattct	gggcagcaat	660
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attgagtaa						909

<210> 3347

<211> 1083

<212> DNA

<213> B.fragilis

<400> 3347

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gaaccgggag	aatggatagc	cactgtagag	gggacggaag	attatgaagt	ggaaatctca	180
ctggaaggga	aaaaaataat	tcattgggtc	tgcgactgtc	cttacgaagg	agatatatgc	240
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tatataaacc	aattgataga	ggaaaggaaa	tcaagctggg	agctttataa	gcttattgaa	1020
aagaaaatta	atatatcctt	aattccgcaa	cactataatt	taactttatt	tataagttcc	1080
tga						1083

<210> 3348

<211> 267

<212> DNA

<213> B.fragilis

<400> 3348

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aatggaatga	ctgcctttgt	ggaatatgaa	gtcgaagatg	gagcactgga	tattatgcac	120
actatcgtac	ctcctccctt	ggaaggaaa	ggaattgcgg	ccgcactggg	agaagcgact	180
tataaatatg	cctctgcgca	ggggttgaag	cccaaagcaa	cgtgttcgta	tgccgtcgca	240
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<210> 3349

<211> 222

<212> DNA

<213> B.fragilis

<400> 3349

aaagtgaagag	aaaataactcc	gaccacaata	agcgcaaggg	tattgcgcat	ccaaacgggc	60
atgggtgcggg	tagttttctt	tttcgctttc	gtcttccgtg	ccggtgtacg	acgaccggaa	120
gcgggtttgc	cggaggtaga	agtgtttcgt	gaagacttca	ttgattttta	ttcttattta	180
gagtttgatt	caccacagat	tacacggatt	ttcacagatt	aa		222

<210> 3350

<211> 705

<212> DNA

<213> B.fragilis

<400> 3350

cgactcatgg	acgaaacact	gattcactat	accgatgtag	agatacatca	gcaggaactc	60
tgtgtgctga	gcgaagttaa	tttgcaactg	cacaaggggg	agttcgttta	tttgggtgggt	120
aaagtgggct	ccggcaagac	cagcctgctc	aaaaccctct	atggcgagct	cgatgtgact	180
gccggtgagg	ccgaagtgtc	cggttatcgg	atgacatcca	tcaagcgcaa	gcacattccg	240
cagttgcggc	gcaagctggg	cattgttttt	caggatttcc	aactgctcac	cgatcgtagc	300
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aaggaacgca	tagccgaagt	acttaacctt	gtcgggatgg	agaataaggg	ctataaactg	420
ccaaacgagc	tttcggggcg	tgagcagcag	cgcatcgtga	tagcgcgtgc	catgctcaac	480
tctccggaga	ttatcctggc	ggacgaacct	accggaaacc	tcgatgtaga	gaccggaaaa	540
gccattgtag	agttgttgca	taacatctgt	cagaccggat	cgctggtagt	gatgaccact	600
cacaacctcc	agttggtagc	cgaatatccc	ggacaggtat	accggtgcgc	cgaacatcgc	660
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<210> 3351

<211> 210

<212> DNA

<213> B.fragilis

<400> 3351

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cgccgaacaa	gctcggcaaa	agttttgcga	ccttcgtggc	tggccgtaat	gtcgagaaaa	180
accaactcat	ctgccccctg	ctcgcataaa				210

<210> 3352

<211> 387

<212> DNA

<213> B.fragilis

<400> 3352

ctatttactt	gtactttttc	tttccgtttt	ggcacgatat	tggctatatg	ccttttcgcaa	60
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aacagtctga	taaacggcaa	aatgataggg	cgcgtacttg	ggatcttact	ctttatagag	180
gcgggaatgt	ttgtactctg	ctccggcata	tccgtggttt	atggtgaaag	cgattacaag	240
tatttccttt	atacggcggg	tatcaacctc	ctgtccgggtg	cgttactggg	gttttatgga	300
cgtggtgcgg	aaaatcgggt	gagccggcgt	gacggttact	gcattgagac	actctcgtgg	360
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<210> 3353

<211> 774

<212> DNA

<213> B.fragilis

<400> 3353

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ttcaccatac	ttctatTTTT	attctcgtctg	gcagaagtat	atgcacaaac	ggaattcacg	120
acttgtctgt	ttgactcaag	cgggaaccgg	atagtgccgg	tagctattta	tcaaccgcga	180
aaagaaaccc	ccaaaacaag	agtcattata	ttcaaccatg	gatatgacgg	aaacaagaac	240
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aaatttcgaa	tagaagttgt	gcgactggat	ggagttacac	acagtaacat	gggagaaaac	720
ggatcggcag	aacaacacga	tcttattaac	cgacatatat	atattcttaa	ataa	774

<210> 3354

<211> 186

<212> DNA

<213> B.fragilis

<400> 3354

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ggagatcacc	gtaccgatgg	actcggaaaa	gccgacaccc	aagaacagga	gaactgccca	120
accaagaatg	acgatgataa	gataaaaagc	aaaaaacata	cccacagtag	acacaatcga	180
aggtga						186

<210> 3355

<211> 198

<212> DNA

<213> B.fragilis

<400> 3355

gttaagctta	gagcattgat	actaagatac	aaagaatctg	tgtaaatccg	tgtaaatccgt	60
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ggatgccgtt	tcagccatgc	gacggcatac	gaacacgttg	ctttgggctt	caaccctgc	180
gcagaggcat	atttataa					198

<210> 3356

<211> 825

<212> DNA

<213> B.fragilis

<400> 3356

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gagttcaaag	gaagtcctga	gtatgggatg	cgcatcaatg	tccctgccga	cgggtgtacc	120
gatttgattt	tcgctttggg	cgggataaca	caaccgtag	gcaacgaagg	gcggatcatg	180
ccgtcttgcc	gttcgttttt	cgtgggaccg	atgaaacgct	attcggagtt	ggtcgcgtat	240
accgaaacgg	ttcacatggt	tggatattcg	tttcatcctt	gcggattatt	ccgattcatg	300
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cagtgtattg	agacagtact	ggtgcggctg	atgcacaagc	acgatgtagt	ggacaaacag	480
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aatacgacgg	aggcaaataa	cctgctctcg	gtagcgggtg	atgccggata	ttacgatgtt	720
tcgcacttct	tgaagaggt	caagacgctg	tccggcggta	cggcagaatc	attcctttct	780
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<210> 3357

<211> 735

<212> DNA

<213> *B. fragilis*

<400> 3357

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gttgccaaag	agtttgaggc	caacgggtatc	cggcgtttgc	acgtgggtga	tctggatgga	180
gccgcttcgc	atcatgtggt	caactaccgg	acactcgact	tgatagccag	tgcacatcg	240
ttgattatcg	atttcggcgg	tgggttgaag	agtgtatgaag	atctgataat	tgcttttgag	300
aatgggtgcg	agatgggtgac	cggcggtagt	attgccgtca	ggaaccctga	cctgttttgc	360
cgttggatcg	accgttatgg	cagtgggaaa	atcatttttg	gagccgatgt	taaagatcgt	420
agaatagctg	tcaacgggat	gaaagacgaa	agtacttgtg	aacttttccc	tttcttgaaa	480
gattataccc	agaaaggaat	tgagaaagtg	atctgtaccg	atatcagttg	tgacggcatg	540
ctggcggggc	catcttttga	tttatacaaa	gagattctgg	cagagcatcc	cactctttat	600
ctgatagcca	gtggcgggtg	gagcagtata	gccgatattg	aagcgttgca	cgaagccggg	660
gtacctgccg	ttatttttcg	taaagccctt	tatgaaggac	gtattacttt	gaaagagctt	720
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<210> 3358

<211> 183

<212> DNA

<213> *B. fragilis*

<400> 3358

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ctcggaggcg	tcattctcaa	ctgcttcgac	tcattcagaca	gattacacat	attacatata	120
atagacctga	gcaaagataa	gcgattctac	cggaataacg	acctgctttt	ggttactatt	180
tga						183

<210> 3359

<211> 1920

<212> DNA

<213> *B. fragilis*

<400> 3359

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aaagaccgga	atgcccgttaa	gaattttgtt	tattcttgct	atggctatct	gccgcaaagt	180
aatgtggcat	caggcagtc	cgattttgctg	acaggagatg	aagtgtatac	ggcttttgaa	240
catgaaacgt	ttgccagttt	tccaaaaggc	aactatacgg	cttcttcgcc	ggtgatttct	300
tattggaata	cattttttca	aggattgcgt	cagtgcata	tatttctgga	aaatgtagac	360
aaggtacccg	acctgactga	aagtgtataa	acagactata	tcgcacaggt	taagtttctg	420
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aataaagaag	attacggact	ggcaaccagt	gtaggagcta	aggctgtgaa	agcgaaaatg	660
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cgggtgtctc	gaaccagctt	ggtcgattgg	gattcgcgta	atccggaggt	tcttctggca	960
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gccgacttgt	atttggcata	tgccgaagca	tgtgtggaga	ctaattgatct	ggagacagcc	1560
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aatgaacttt	atttggaaaa	ccagaatttc	tgggatatgc	gccgttggct	gctggctgga	1740
caatatTTTA	atgtcaaggc	taaggggttg	aatattgctg	ctactaccat	agaagattat	1800
gcgatagtga	agactattga	ctttgagcgt	aagttcgagg	cgccgactca	atatctgttg	1860
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<210> 3360

<211> 1188

<212> DNA

<213> B.fragilis

<400> 3360

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gtgttgagcg	aatatttcga	tactacggct	tcgctgggtc	agcttagtct	gactttcagt	180
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aaactgcctc	taatggtctc	attagtgatc	ttctgtatTT	ccacagtagg	atgcctttac	300
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ggagtcgtga	tttccaagtc	catagccatt	gacctttacc	agggaaaaga	actaacacgt	420
tttttcgcc	tgctgagttc	cgtacaggga	ttagctcccc	tctgtgcccc	ggatttgggc	480
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tctcccttta	ttttccaaaa	ccacttcggg	acctcaoctt	ttgcttacag	cctctgtttc	780
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ccgttgacgg	gaataggcaa	tatgctttac	tctaccggta	tcattatcgt	ggcttgctgt	1140
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<210> 3361

<211> 318

<212> DNA

<213> B.fragilis

<400> 3361

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gcatcccgaa	aacgatggcg	tactcccgaa	gtccacctgt	tgggaatagc	cgtagcggga	180
ggttcgttag	gtgcgtgggc	agggatgtat	acgtttcggc	ataagacacg	gcatcttaaa	240
tttaagtatg	gtataccggt	aattggggta	ttgcaggtgg	ggatggcaat	ctgtctcctc	300
ttgtcagaat	ttacttag					318

<210> 3362

<211> 246

<212> DNA

<213> B.fragilis

<400> 3362

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caaaaagagg	aaacacaggg	aaatacgggt	gaaatatatt	ccatcacttt	actaaaagat	180
atccatacga	accgaacaga	ctacgcgatt	ctattgaatg	tgcccgatac	ggttatagcc	240
tattga						246

<210> 3363
 <211> 744
 <212> DNA
 <213> B.fragilis

<400> 3363
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 aatcactatg aatatataga gcaggtattg aaagaaatga aaaagctgaa agatgggaag 660
 aaaacagtag aagacattgt aaaaaagttc agaatcgctt ataaaagacg tcctgccatg 720
 atggaaacac taagtaaatt ctga 744

<210> 3364
 <211> 621
 <212> DNA
 <213> B.fragilis

<400> 3364
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 gacaacgaca cccgcaaggt gctgatgctt ggcttcatga ataaagaggc ttacgagaag 120
 actgttgaaa ccgggaaagt aacctttttc agcgtacca agaaccgttt gtggacaaaa 180
 ggcaagaga gtggttaatt cctgaatgtc gtttctatta aagaagattg cgacaaagac 240
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 aacaagatag cgcagaaagt aggcgaagag gccgtggaag cagtgatcga ggctaccaac 480
 ggtacagatg accgtttgat atacgaaggt tccgacctga tttaccacct gattgtattg 540
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 gactcatgga cgaacactg a 621

<210> 3365
 <211> 1224
 <212> DNA
 <213> B.fragilis

<400> 3365
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 caacttttgt tgaaacagat gttcggcaaa cggaacagc aatccttccg gcgggagtat 120
 gacttgaac tgactgaata caaactgcaa cgtatacaga gctgatcga ccacggagtg 180
 cttcgtgaga atgggttcgtt tctcgaatg gaggatattc acctgcactt tttcgagcag 240
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gtgtcttttg	atgaaagaat	cacattctat	tgccagatcg	tatcccagtt	ttacgaagaa	1140
ctccgcatca	ccgacgagta	tggcaggatg	gatggtgtgg	aatatgcgtt	gatttatccg	1200
gaaaggacgg	gagaaatagt	ttag				1224

<210> 3366

<211> 207

<212> DNA

<213> B.fragilis

<400> 3366

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tacacgaagg	acttaagaat	attcttggtc	gtagacgata	ttgaccgata	ctctgaaaaag	180
aaaatcatcc	aatcgatcga	ttcttaa				207

<210> 3367

<211> 600

<212> DNA

<213> B.fragilis

<400> 3367

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tatgccttga	agcgcttagg	ggtggaagca	gtgattacat	ctgataaaga	ggtgctgaaa	120
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<211> 1173

<212> DNA

<213> B.fragilis

<400> 3368

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<211> 1134

<212> DNA

<213> B. fragilis

<400> 3369

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<211> 1341

<212> DNA

<213> B. fragilis

<400> 3370

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 <212> DNA
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 <212> DNA
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 <211> 771
 <212> DNA
 <213> B.fragilis

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<211> 960

<212> DNA

<213> B.fragilis

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<211> 1719

<212> DNA

<213> B.fragilis

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<212> DNA

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gaccggatgg	acgaattcag	aaacgaaaag	cagttggccg	agaaagaact	ggaaggcgag	2580
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cagctggctg	agacaaacac	ccgcctgaaa	catttgagcg	aggatattcg	ggagacggag	2700
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attctgaaca	aggataagcg	gaacatcaca	agtgtgacac	ggctgataaa	gcaggaagtg	3720
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<210> 3377

<211> 207

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (178)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3377

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agaagtagc	gaaccgttac	cgtcgacaag	gatatgtgta	tcattctgtg	cgtgggtgac	120
ttggaatggg	agaatgtagg	tttcgaagcc	aaagcgctcg	atgccatgcg	tgacatcncc	180
gtgcgtatga	tttcgttttg	cgggtag				207

<210> 3378

<211> 336

<212> DNA

<213> B.fragilis

<400> 3378

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aaatattacg	aagatataaa	gaaagtggag	gtgtcattaa	aggtagttaa	accagaagct	180
gcggagaata	aagaagccgg	cattacagtg	ctgggtccga	ataatgattt	tcattgcaagt	240
aaaatatgcg	atacttttga	ggaagcagtc	gacttatgtg	tggaagcatt	ggaaaaacag	300
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<210> 3379

<211> 525

<212> DNA

<213> B.fragilis

<400> 3379

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agtgaattga	gaagagcttg	tttcaaggct	gacatcaaat	tgatggtagt	caagaatata	180
ttgcttcata	aagcatttga	aagcatttga	gggtgatttct	ctcctcttta	cgattctttg	240

aaaggtacaa	cagctgtgat	gttttgcaat	gttgcaaacg	cacctgctaa	actgatcaag	300
gataaatcta	aagatgggat	tccgggactg	aaagccgcat	acgcagaaga	aagcttctat	360
gttggtgctg	accagttgga	tgctctcgta	gctattaaga	gtaaaaatga	agttattgcc	420
gatatcgttg	ccctgttgca	atcaccggcc	aagaatgtta	tttctgctct	tcaatcaggt	480
ggcaacaccc	ttcacggagt	tctcaaaact	cttggtgaaa	gataa		525

<210> 3380

<211> 591

<212> DNA

<213> B.fragilis

<400> 3380

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agtataaaac	aacaatctat	ggctttaata	aaatcagtaa	gaggttttac	tcccgaattt	120
ggagaaaact	gttttctggc	cgataacgcc	accatcatcg	gcgatgtaaa	aatgggacag	180
aattgtagca	tttggttcaa	caccgtgttg	agaggagatg	taaactcaat	ccgcatgggt	240
gatggagtga	acatacagga	cggaagtgtc	ttacacactc	tttacgaaaa	atcaaccatc	300
gaaataggca	actatgtatc	ggtagggcac	aatgtgacaa	tccatggtgc	aacagtaaag	360
gactatgctt	tgatcggcat	gggatcgacc	ttgctcgatc	atgcagtcac	tggcgaaggc	420
gcaatcgttg	ccgcaggctc	acttgtactg	agcaatacca	tcacgaacc	gggaagtatt	480
tggggagggtg	taccggccaa	gttcataaag	aaggtagatc	cgaacaagc	taaagaactg	540
aaccagaaaa	tagctcacia	ctacctgatg	tattctgact	ggtataaata	a	591

<210> 3381

<211> 1782

<212> DNA

<213> B.fragilis

<400> 3381

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tggaaatcaa	gagagtggat	atcaggattt	accggctcgg	caggtagcgt	agtgtattact	180
gaaaaaaaaag	ccggactttg	gactgactca	agatattttc	tacaggcagc	agagcaattg	240
caggggaagcg	gtatcgatct	atacaaaagag	atgttaccgg	aaactccaag	tatcacaaaa	300
ttcctttccg	acgagctaca	gccggggcgaa	tccgtaggta	tcgatggaaa	aatgtttctc	360
gttgaacaag	tagaaagtat	gcaagcggaa	ctttcagcaa	agaacattca	gattgtgttc	420
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tttgtatacg	atatcaaata	cgccggcaaa	agttgctctg	aaaagattgc	agccattcgt	540
acagagttaga	aaaagaaaag	cgcagaaaagc	gtgatgctgt	cagctttaga	cgaaatagcc	600
tggacttttga	atctgcgtgg	caatgatgta	cattgcaatc	cggtagtagt	gagctatctg	660
cttataacag	aaaaaaaaagc	agtattattc	attgcaccgg	agaaagtgc	agaagaggta	720
cgggaattatt	tagaaaagca	acagatagag	atacaaaact	attcagatac	agagatttac	780
ttatctgac	tcaatagtcc	aagtatctta	atgaatcctg	caaaaaccaa	ctattctgtt	840
ttctcttcgg	taaatcccca	atgccggatt	atacggggag	aagcgccggt	agctctattg	900
aaagccatac	gtaacgaaca	agaaatcaaa	ggcattcatg	cagccatgca	acgtgatggc	960
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accgaggaaa	gcaacgcaac	attgcacccg	aaagggtttc	ttctcctcga	ctcaggagct	1200
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gaagaaaaaa	cagattatac	attggttctg	aaaggacata	tcgcactggc	gatggccgta	1320
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cataaaatga	acttcctaca	tggtacaggt	catggtgtag	gtcattttct	aagtgtacac	1440
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acgctctgcc	ctatctgcaa	gaaggggaatc	atcaaagagt	tattaactgc	cgatgaggtc	1680
gactgggttga	ataattacca	ccagcaggta	tacgaaaagc	tgtctcccaa	gctgaacgaa	1740
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<210> 3382
 <211> 1200
 <212> DNA
 <213> B.fragilis

<400> 3382

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ggtacaatcg	gtcacgttga	ccacggtaaa	accactttga	ctgctgctat	cactactgtg	120
ttggcaaaga	aaggctcttc	tgaacttcgt	tctttcgatt	ctatcgataa	tgctcctgaa	180
gaaaaagaaa	gaggtattac	tatcaatact	tcacacgttg	agtatgaaac	tgctaaccgt	240
cactacgcac	acgttgactg	tccgggtcac	gctgactacg	taaagaacat	ggttactggg	300
gctgctcaga	tggacgggtg	tatcattgta	gttgctgcta	ctgatgggtcc	gatgcctcag	360
actcgtgagc	acatcctttt	ggctcgtcag	gtaaacgttc	cgaagctggg	tgtattcatg	420
aacaagtgcg	atatgggtga	agatgctgag	atgttggagc	ttgttgaaat	ggaaatgaga	480
gaattgcttt	cattctatga	tttcgacggg	gacaatactc	cgatcattca	gggttctgct	540
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gttgatactt	ggattccact	gcctccgcgc	gatgttgata	aacctttctt	gatgccggta	660
gaagacgtgt	tctctatcac	aggtcgtggg	actgtagcta	caggctcgat	cgaaactggg	720
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gtaacagggtg	ttgaaatgtt	ccgcaaactt	ctggatcagg	gtgaagctgg	tgacaacgta	840
ggtctgttgc	ttcgtgggtg	tgacaagaac	gaaatcaaac	gtgggtatgg	tctttgtaaa	900
ccgggtcaga	ttaaacctca	ctctaaattc	aaagcagagg	tttatatcct	gaagaaagaa	960
gaaggtggtc	gtcacactcc	attccataac	aaatatcgtc	ctcagttcta	tctgcgtact	1020
atggactgta	caggtgaaat	cactcttccg	gaaggaactg	aatggtaat	gccgggtgat	1080
aacgtaacta	tcactgtaga	gttgatctat	ccggttgac	tgaacatcgg	tcttcgtttc	1140
gctatccgcg	aaggtggacg	tacagtaggt	gctggtcaga	ttactgaaat	tatcgactaa	1200

<210> 3383
 <211> 456
 <212> DNA
 <213> B.fragilis

<400> 3383

attaataaaa	aaatggctaa	agaagttgct	ggactaatca	aattacagat	taaaggaggc	60
gcggcaaacc	catcacctcc	cgttggacct	gcattaggtt	ctaaggggaat	caacatcatg	120
gagttttgca	agcaattcaa	cgccagaacc	caagacaaag	caggtaagat	tttacctggt	180
atcattactt	actacgcaga	taagtctttc	gattttgtaa	tcaagactcc	tcccgttgcc	240
attcagttgc	ttgaagtggc	taaggtaaag	agtggttctg	ctgagcctaa	ccgtaagaaa	300
gttgccgaga	ttacttggga	acaggttcgt	acgattgctc	aggacaaaat	ggttgacttg	360
aactgtttta	ctgtggaagc	tgccatgaga	atggttgcag	gtacagctag	aagtatgggt	420
atcgctgtaa	aaggggagtt	cccggttaat	aattaa			456

<210> 3384
 <211> 288
 <212> DNA
 <213> B.fragilis

<400> 3384

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ccgaggattt	cgatttcata	acctacatgg	ataacaccag	tttcgatacg	acctgtagct	120
acagtaccac	gacctgtgat	agagaacacg	tcttctaccg	gcatcaagaa	aggtttatca	180
acatcgcgcg	gaggcagtg	aatccaagta	tcaacagctt	ccatcagttc	cattactttg	240
tcttcccatt	tttctacgcc	gttcaatgca	ccaagagcag	aacctga		288

<210> 3385
 <211> 345
 <212> DNA
 <213> B.fragilis

<400> 3385

aattatcgac	taaaacccaaa	tattaatcag	ttcccggtag	taatatcggg	aactgattat	60
gtacaaacgg	gagtagctca	gttggttagag	caccgggtctc	caaaaccggg	tgtcgggagt	120
tcgagcctct	cctcccgtgc	taatatttat	gaaatgaaaa	aagtagtagc	ttatattaaa	180
gaatcttacg	acgaacttgt	tcataaagtg	tcgtggccta	cgtattcaga	actaactaac	240
agtgcggtag	ttgttttata	tgcttccctg	cttatcgcat	tggtagtgtt	cgcgatggac	300
ttctgtttcc	agaattttat	ggaaaaaata	atztatccac	attaa		345

<210> 3386

<211> 231

<212> DNA

<213> B.fragilis

<400> 3386

aacaaggcaa	gatggtctat	cagagtgcac	caaagcggta	ttgttcatac	ttcaattggt	60
aaggtttcat	tcactgcaga	gcagattcgc	gacaacgcga	aagaattcat	ctctacattg	120
aataagttga	aaccgactgc	agccaagggg	acatatatta	agagtattta	tctttctagt	180
acaatgagtg	cgggtatcaa	aattgaccgc	aatcagtag	aggaaatcta	a	231

<210> 3387

<211> 1233

<212> DNA

<213> B.fragilis

<400> 3387

ggatccggag	gtatgtttta	cgatctggca	ataggaatth	acgaccttct	ggtgcatttg	60
gctgcaccat	tcagtgcgaa	accccggaag	atgatgaagg	ggcactgggt	ggtgtacgat	120
cttcttcgcc	aacaggtaga	gaaagacgag	cgttacattt	ggtttcacgc	cgcttctctg	180
ggggagtttg	agcagggacg	tcctttaatt	gagagtatac	gggagcgata	tcccgattat	240
aaaatactgc	aaacgttctt	ttctccttcg	ggatatgaag	tccggaagaa	ctatagagga	300
gcagatattg	tttgctatth	gccgtttgat	aaacctcgta	atgtgaagaa	gtttctggat	360
atcgtgaatc	cttgatggc	tttcttcatt	aaatatgaat	tctggaagaa	ctatctggac	420
gaattgcaca	aacgtcgtat	tcccgtttac	agtgtttcgt	ctatthtccg	caaagatcag	480
atthttttca	aatggtacgg	agggacttat	cgaaatgtac	tgaaagattt	tgatcatctg	540
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cgggacgaag	atctthtcat	cgaatattth	aatagtcacc	ctgagatgaa	gttgattata	780
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tattccatta	aggattacaa	tgaactgaaa	atattgctcg	acagacttht	aaccgatgaa	1140
gcattcctga	agaagaccgg	cacgaatgcc	ggtaattatg	tcattggtaa	ttcgggagca	1200
acggagaaag	tactgcatat	gataaactth	taa			1233

<210> 3388

<211> 927

<212> DNA

<213> B.fragilis

<400> 3388

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thtcttgatt	atctccggta	cgagcggaa	tattctgaga	aaaccgtact	ggcttacggc	120
gaggatattt	cgcagttgct	ggagtttgct	caggaaagga	tggagaagtt	tgatccggcg	180
gagggtgaagc	cagaactggt	tcgtgagtg	attgtthcac	tgatggatca	gggggtatct	240
tcaacttcgg	taaaccgtaa	gctaagttct	ctccgggtcat	thtataaata	tcttctcagg	300

cagggagagg	tgagcgtcga	tccgttgcgt	aaaataacag	gaccgaaaaa	taaaaagcca	360
cttccctctt	tcttgaaaga	gagtgaatg	aataaattgc	tggatgatac	agatttttgg	420
gaaggggtta	aaggttgctg	ggatcgtctg	attattgaga	tgttttatgc	tacgggcatg	480
cgtctctctg	agttgatcgg	tctggatgat	aaggatgtgg	atttctctgc	ttctcttctg	540
aaagtaacgg	gaaagaggaa	taagcaacgt	ttgatacctt	ttggcgatga	gttgaaagag	600
acgatgcttg	agtatgttga	tataagaaac	gaaatgattt	ccggaaggtc	ggatgccttt	660
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gccacaacga	tgctgaataa	tgatgcggag	ttgggtgcgg	tgaaagagct	tttgggtcac	840
agtagtctgg	cgactacgga	gatttatacg	cataccactt	ttgaagaact	taaaaaagtg	900
tataaacaag	ctcaccacag	agcctaa				927

<210> 3389

<211> 573

<212> DNA

<213> B.fragilis

<400> 3389

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ttgcgtgcta	ttagcggaaa	agaagctaag	gtgaaagagt	atcttgaagc	tgatattaaa	120
aacagcgacc	ttggcgaata	tgtgtctcag	gtattgatcc	ctaccgaaaa	ggtatatcag	180
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gaggctgctt	tggttggtga	ggtttctcac	catctgagaa	atactcctaa	tgtgatagggt	300
ttcttgggag	gttccgataa	accggttccc	ctcagacagt	cggaagtga	tcgtatactt	360
ggtacagtgg	atgaactgca	agaaacgggt	gaagacttaa	atgttccgta	tattgtaggc	420
gaaactgtaa	aggttacttt	tggtcctttt	agcggattca	gtggcatcat	tgaagaagtt	480
aatagtgtaa	aaaagaaact	gaaggtcatg	gtaaagatat	tcgggcgcaa	gacgccgctt	540
gaattaggct	ttatgcaagt	ggaaaaggaa	taa			573

<210> 3390

<211> 543

<212> DNA

<213> B.fragilis

<400> 3390

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gcagggaaag	catactcact	gaaagaagct	gcatcttttg	taaaggaaat	cacttttact	120
aagtttgatg	cttcattaga	tattgatgta	cgtttaggtg	ttgatccacg	taaagcaaac	180
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cttgacgaat	atattgaaaa	gatcaaaagt	ggatggactg	atattgatgt	gattatcact	360
atgccatcta	tcattgggtaa	aattgggtgca	ctcggtcgtg	tactcgggtcc	tcgtggattg	420
atgccgaacc	cgaagagtgg	taccgtaact	atggatgttg	ctaaagctgt	aagagaagta	480
aaacaaggca	agatgggtcta	tcagagtgc	tcaaagcgggt	attgttcata	cttcaattgg	540
taa						543

<210> 3391

<211> 270

<212> DNA

<213> B.fragilis

<400> 3391

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atatttaata	ataacaaaat	gattgtagta	cctgtaaaag	aaggcgaaaa	cattgaaaaa	120
gcgctgaaga	agtttaagag	aaaatttgaa	aaaactggca	tcgttaaaga	gttgagaagc	180
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gtgcaaaaaac	ttcagcaagt	agaagattaa				270

<210> 3392

<211> 417
 <212> DNA
 <213> B.fragilis

<400> 3392

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tttgcagaac	aattagttaa	cttgacagta	aaagaagtta	atgaacttgc	aactatcctt	120
aaagaagaat	atggtattga	acctgctgct	gcagctgtag	ctggttctgc	tggctctgca	180
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gcagctaaac	ttcaggttgt	taaggccgtt	aaagaagctt	gtggtcttgg	cttgaaagaa	300
gctaaggaca	tggtagacgg	tgctcctagt	gtagtaaaag	aagggttggc	taaagacgaa	360
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<210> 3393

<211> 2871

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (2274)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3393

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acccacactg	agaagcgtaa	aaaagaggga	ttgtataaag	tatttgccga	aaacttccca	180
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cgctatacca	ttgatgattg	tatagagcgt	gggctcacat	atagtgttcc	attgaaagcg	300
aaactcaagc	tttactgtac	agaccccgat	catgaggatt	tcgatacagt	gattcaagat	360
gtgttccttg	gtcctatacc	ttacatgact	gacaaggcaa	cttttgtcat	caatgggtgct	420
gagcgtgtag	ttgtgtcgca	gcttcaccgt	tctccggggc	tattcttcgg	tcagagtgtg	480
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gagttcgcta	ccgatattaa	caacgtaatt	tacgcttata	ttgatcgtaa	gaagaaattg	600
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aaactggctg	cgctgtctt	gaaaacctgg	attgaagatt	tcggtgatga	agataccggt	780
gaagttgttt	ctattgaacg	taatgaagtc	attatcgacc	gtgaaacagt	aatcgaaccg	840
gaacatatag	atgaaataat	tgactcgggc	gttcaaaaaca	tccttattca	caaggaagaa	900
ccgaaccagt	ccgactactc	tattatatat	aatacccttc	agaaggaccc	gagtaactcg	960
gaaaaggagg	ctgtgcttta	tatctaccgt	cagttgcgta	atgcagaccc	tgccgatgat	1020
gccagtcccc	gtgaagttat	taataacctg	ttcttctctg	aaaaacggta	tgaccttggg	1080
gatgtaggtc	gttatagaat	caataagaaa	ttgaacctga	cgacagacat	ggacgtgcgt	1140
gtcctcacta	aagaagatat	tatcgagatc	atcaaataatc	tgattgagct	gattaactca	1200
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tctcgtgaac	gtgccggatt	tgaggttcgt	gacgttcact	atacacacta	cggacgcctt	1560
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gaagctccaa	tcgtagggtac	aggtattgaa	cgccagctgg	tacgtgattc	acgtactcag	2040
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1331

tacgatcgta	cagaagatga	agagtttcta	agttttgagc	cggcattaaa	agaatataga	2160
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aaaattgacg	atgaatttga	gtctaaggta	gctgacttga	aacgtatctt	ggtaaaaaaa	2820
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<210> 3394

<211> 1788

<212> DNA

<213> B.fragilis

<400> 3394

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tggacatctg	aaaaagatgc	ctggtataat	ctgaattcaa	tttattctgc	tgcgattccg	180
ggtattggaa	tttacggaga	tgcttattcg	gatgatgtat	attgccaaata	tgacatgaa	240
tctaacgcaa	aaatattcca	gcaagatggg	tttagccctc	tttatgatga	agggttggaa	300
tttgagacaa	ttcgtaagga	aaacttggtt	ttgcagaaag	ttggaaattg	tgagatggat	360
gaatctttaa	gagaaagggt	caaggcagaa	gttcgtgcaa	tgctgcctg	gacttatttg	420
ggcatgacta	tgacgttcgg	taaagtgcct	ttgattactg	aagtactgga	ttataactct	480
cctaataatc	cgcgtgacga	ggtaagtgtg	attcgtgatt	ttattatgaa	agaacttact	540
gaggctgctg	caatattgcc	cgagaaatac	gctgggtggt	atccaaatga	aaagggacgt	600
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acggaactta	caatgaaatg	gagctctcgt	atgcgtctga	aaccaattcc	gcaaacagct	1740
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<210> 3395

<211> 234

<212> DNA

<213> B.fragilis

<400> 3395

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gggcggggaa	aagccggcgg	agtaaagttg	gccaaataatg	atagagatgt	ctaccaatac	120

gctcaaaacta	ttttggagat	gactataaaaa	ggttatcccc	tcaccaaaaa	ttttcttaat	180
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<210> 3396
 <211> 2007
 <212> DNA
 <213> B. fragilis

<400> 3396

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aagattaagg	atttccagac	cggtactgag	ttgaatggta	cagatgtaac	taattctaag	420
atggagtaca	gttggaaga	aaacagtcgc	cttacttata	atgcattggc	taattacgtt	480
tggagtaatg	aaaaacataa	tgtgaatgta	ttggctgggtg	tatcttatga	acattataag	540
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atgtcttact	ttggtcgtgt	aaattactcc	tttatggatc	gttattttatt	agaggccaat	720
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aacaaaaaaa	cagatgatat	cttgttggca	tatccgagtc	cgaaagaaat	cggtattggc	1140
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<210> 3397
 <211> 1218
 <212> DNA
 <213> B. fragilis

<400> 3397

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gctgagcagg	tgaatcctga	aaatgtattg	cccagatata	cacgtccggt	gatggaacgg	180
ggagagtggg	agaacctgaa	tggtttgtgg	aattatgcca	tcaccgagaa	aggagctgct	240
ccttcagctt	acgaagggtca	gattctgggt	ccttttgcca	tagagtccag	cctttcgggt	300
gttggttaaga	aagtcggccc	cgacaaaagaa	ctttggtatc	agcgtacttt	cacagtaccc	360
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atttgggtca	atgacattaa	ggtgggacaa	cacaccggag	gatttactcc	tttttcactc	480
gatattacgg	ctgctttggc	tactaaagga	gacaataaac	ttgttgtgaa	ggtatgggac	540

ccgacagatc	gcggaacctca	gcctcgtggc	aaacaggtaa	accgtccgga	aggcatctgg	600
tatacggctg	ttaccggtat	ctggcaaact	gtctggatgg	agcctgtggc	cgaacgtcat	660
attactaatg	ttcgtacgac	ttcggacatc	gaccgtaaga	aactcacagt	ggacgttact	720
accagtacca	gctgtccttc	ggaagttgtc	gaagtaaagg	ttttcgatgg	taaacagctg	780
gttgctaccg	gaaaaggatt	gaacggccag	actattgaca	ttcagatgcc	tgctgatgct	840
aaactgtgga	gtcctgcttc	tccgactctt	tattctatgc	agattgccct	gttgagcaat	900
ggtaaagtga	ccgataaagt	agatagctat	acagctatgc	gcaaatactc	tacccgccgt	960
gacaaggacg	gaattgtacg	tttgcagctg	aacaatgaag	atgtgttcca	gtttcgggtcc	1020
tctcgatcaa	agatggtggc	ccgacggact	gtatacagct	tcgacagacg	aaggggggggt	1080
tatgatattc	aaaaaaccaa	agacttcgga	tttaacatga	tccgtaaaca	cgtgaaggggt	1140
gaaccggcac	gttgggtatt	acactgtgat	aaactgggta	taatcgtatg	gcaggatttg	1200
cccaaatggg	aaccgtaa					1218

<210> 3398

<211> 2076

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (654)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3398

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aaaccgatga	atttcattaa	actgcccgtc	ggaagtattc	agcccgaagg	atggttgaag	240
aaatatctcg	aattacagaa	agacggtctg	accggtcacc	tgaatgagat	cagtgcattg	300
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ggtcccatca	acgagcggaa	cggaaaaaga	gaattgtggg	cacagatgat	tatgctctgg	540
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atggacgctc	cgaaaaggga	aaaagaagaa	atcacctga	ttccgatggg	agcagccaga	2040
ctgcgggttt	cggctttccc	gaacacaaga	gagtaa			2076

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<210> 3399
 <211> 1587
 <212> DNA
 <213> B.fragilis

<220>
 <221> unsure
 <222> (194), (1550)
 <223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3399
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 gttaccggaa aagccgctcg gcaactggac tttttgggca gagtttcctg gccttgcaaa 180
 aatatccagg ccgnatactg gctctataat atcacccggtg attcattcct actcgatctc 240
 ggcaaactga ttcatacaaca aagtttcagc tttgtagata tgggtgaaccg gggagacctg 300
 aaacgtatca atacgattca ctgtgtcaac ctggcacaag gtatcaaaga gcctgtcatc 360
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 gaaaatgcc cgatagaaat acggatgaaa gcaagattgg taccttcatg gaaactttac 1440
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<210> 3400
 <211> 735
 <212> DNA
 <213> B.fragilis

<220>
 <221> unsure
 <222> (679)
 <223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3400
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 accaacaacc gctatccatt ggtacgcaaa cctttgatgg aactaccgtt aggcagcatt 180
 aaggcaaaag gatgggttaca ggaaatgttg gtaaggcaga aaaacggggc aaccggggcaa 240
 atggacaaac tgtatccgct ggtgatgggc gaacgcaacg gctggctcgg cggcgacggt 300
 gatcaatggg aaagaggacc atactggatt gacggtttac ttctctggc atatatcctg 360
 gacgatgcgc aactgaaagc taaagtgcaa ccttggatag aatgggcttt aaaaagtcag 420
 cggaagacg gtttcttcgg tccggccaaa gactatcccg gagaggccgg catacaacgg 480

gataactctc	acgactgggtg	gccgcgtatg	gtgatgctga	aaatactcca	gcaatattat	540
tctgccacga	acgatcaacg	ggatcatccg	tttatgaccg	actatttccg	ttatcaactg	600
aaaacgttac	cggaaaagcc	gctcggcaac	tggacttttt	gggcagagtt	tcttggcctt	660
gcaaaaatat	ccaggccgna	tactggctct	ataatatcac	cggtgattca	ttcctactcg	720
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<210> 3401

<211> 183

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222> (168)

<223> Identity of nucleotide sequences at the above locations are unknown.

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ttcggaatga	ttaatcacct	ctcaatcgga	aggctcccac	taccgganat	tccgtattct	180
taa						183

<210> 3402

<211> 1116

<212> DNA

<213> B.fragilis

<400> 3402

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ggttgtggca	acaagagcgg	cggacagaaa	caggagtcgg	taagtgcggc	aaaggataca	120
tatgtaaatc	ctttgtttcc	ggaaggggcc	gatccgagtg	ctcttttcca	taatggtaag	180
tattattata	cccatggaac	ggaagataag	atcatgcttt	gggaaacgtc	cgatatcact	240
gatatggctc	atgcggtttg	caagatagtg	tggaagcctc	acgatccatc	caacagttgt	300
catctatggg	caccggagat	tcactatatc	aatgataaat	ggatatata	ttatgcagcc	360
gacggcgaca	atgcggataa	tcaccagttg	tacgtacttg	aaaactcttc	acccgacccg	420
atggagggaa	agttcgaaat	gaaaggaagt	atcataacca	atcccgaatg	gaattggggg	480
atacaggcca	ccactttcga	acataaggga	gtccgctatc	tggcctggtc	cggatggccc	540
aaaaggagaa	ccaatgccga	aactcaatgt	atctatattg	ccaggatgaa	agatccgtgg	600
acactcgatt	caccccgtgt	cctgatatcc	aaacccgagt	atgaatggga	acggcagttg	660
gtcaatccgg	atggcagccg	tacggcttac	cccatttatg	tgaatgaagg	gcctcagttc	720
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gcccgtcagg	tgaccaatgg	agacaccggg	agtccctgaa	cccgtaatcc	gcgaatacaa	1020
aaaataggat	gggatgcccc	tggaatgccc	gatttgggga	ttccggttcg	tgcagggggt	1080
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<210> 3403

<211> 2223

<212> DNA

<213> B.fragilis

<400> 3403

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actctccgtg	cacgctcttt	tattacccgt	gaaggagttt	ccatgctggg	catcagcgat	180
gcggcggaat	cgatcggttt	ccgtacttcg	gggggtgcga	tctcttttga	gcaactgaag	240
aaggatgtac	cgttgccttg	cattctgcat	tggaaaccaga	atcacttcgt	ggtctgttat	300

gatataaaga	agaaacgtag	cggctaccgt	ttctatatcg	ccgaccccg	ccgtcagttg	360
atttcgtaca	gtgaggagga	gtttaagaaa	tgctgggtgt	ctactaaggt	gaatggagag	420
gagaaagggg	ctgcacttgc	gcttgaaccg	ggctccggaat	tccaagggca	gggcgacgaa	480
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ttgatacagt	tggtgactgc	catgcaggag	atcaactgtg	acaactgtga	aaaacaaaaa	1140
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gcggataaga	tcgtgggtgct	ggataggggt	gctgtagccg	aagaggggaa	ccaccgggaa	2160
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tag						2223

<210> 3404

<211> 612

<212> DNA

<213> B. fragilis

<400> 3404

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tattcacgtg	tactgaatt	gagggcggtt	gaggaactgg	ccggagaatt	gctggatgaa	180
gtgatggaga	gtgtctgctt	agggatgccg	gtcgggtctgt	ctttcggatg	gtgtgggtata	240
ggttgggggg	tggaatatct	ggtccggaag	ggatttgtgg	aagatgatga	taatgaaggg	300
cgcaataaga	ttgatgagaa	agtgatggag	tatgatgtca	ggcgtttggg	cgattactct	360
ttagctacag	ggttggaagg	aatttcatgg	tatgtattgc	ttagactcta	ttcgggagat	420
aaaggtgtaa	ggatagggga	aaaaaactat	ctgtctgatt	tgaaaagtgc	ttgtgagaaa	480
gctttaaaaa	aagggcggtg	tgaggggata	cttctgttac	tggattttct	gaatgggaaa	540
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ccggatatgt	ga					612

<210> 3405

<211> 672

<212> DNA

<213> B. fragilis

<400> 3405

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tacatgtgta	atctgtatca	ggattgttct	tttgaacgct	ttctttcgtt	cgttgagttt	420
gaattgggga	aggcaaattcc	gttgtggcag	gatgaacata	tacgcaggca	atctgatttt	480
tatacttctg	ctgatgtgga	ctgtattgta	cctctcagca	agttgaaccg	tttttttagcc	540
gagaggggag	tggatatgcc	ggaagaaaag	gcaaattgcca	catctgtccg	gtttgaactg	600
aaggatgaaa	aacagatagc	aaagataaaa	gaactatata	gtcttgatta	tgaataacct	660
gttggttgtt	aa					672

<210> 3406

<211> 720

<212> DNA

<213> B.fragilis

<400> 3406

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caaagttggg	aaagaagggg	cagagagttg	tttgcgacag	gcaccgtagt	gtccggtagt	180
acatattttt	caagagtgat	ggattgcagg	tgttatgtcc	ccatggtata	caattattta	240
tataggaggg	attttattga	acagaatgga	tttcgctttg	aaccgggggt	ggttcatgaa	300
gatgaattat	ggactcctca	ggtgctgaca	accgctcaaa	aaataacggt	tgccgatatt	360
gattttttatt	attaccggca	acgggaagga	tcgattatga	cggcgacggc	agcgggcagg	420
cggattgctt	ccattcaatt	gattattgag	aagttactgg	aatatagccg	taagcacttg	480
tttgagaaaa	aatatagaga	ggcaaaggaa	gcactctatg	taaggctgtt	gcagatatat	540
tctactgcct	gtacattgca	tccggacgga	acttatacaa	ctttgtacga	tagggcgagg	600
gagatgcttc	gtgtttgtga	ggaactcagg	cggcaagagt	ctcttgggag	atgggtatagt	660
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<210> 3407

<211> 627

<212> DNA

<213> B.fragilis

<400> 3407

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aaagagatcg	agcttcgtag	cgaagagggtg	caggaagtga	tgaatcgtgt	tccggcatgg	180
attcttcgca	gtggcattac	ggtgctgttt	gtcatagtgg	tggcattggg	tgcgggaagc	240
tattggttta	aatatccgga	tgtgattgct	gcggagggtga	cggtaagcac	acaagatcct	300
ccggcttacg	tagtggcccg	agcagccgga	agactggaga	atctgtatgt	acaaaacggg	360
caggaggtgg	aaccgacac	gaatctgggg	acaatagaga	atacagcttg	tgcgtcggat	420
gtattctcct	tgcaagagcg	gatgcggaag	tggaaacagg	aaggatatac	gcctgagtcg	480
ggtaaagggc	tttttctaca	ttcggaaaca	gatcgctggc	ggctgggaga	gatacagtcg	540
gcctatgcgg	cgtttgtgag	tactctctcc	gaaatggtgc	gtatgaatga	attgggggtat	600
tatgcaaaga	agttacagtc	gtcttaa				627

<210> 3408

<211> 768

<212> DNA

<213> B.fragilis

<400> 3408

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gacgtacttg	ccgagatgat	ggtgcaatac	gaatcggacg	ggaacagtat	cgtttacttt	180
ggccgtggaa	cagaggtact	tgccgttgtc	gccattgccg	accagataaa	gccgacttct	240


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gccgagggcgg tgaaggaact gaaacgtcag ggcacgcaca tttgcatgct gaccgggtgac 300
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gccttgccgg atgataaaga agagtttgtg cgtgagctcc agatgcaggg caaaacggtt 420
gctatggtgg gtgacggaat caatgactca caggcggttg ctttggctga tgtcagcata 480
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gatctgctgt tgctgccccg tgcattcgaa ctctccaagc aaacagtaaa actgattcac 600
cagaatctgt tttgggcggt tatctataat ctgataggca ttcccatgac agccggaatc 660
ttgttccctg tcaacggggt gctgctcaat ccgatgcttg ccagtgcagc gatggcattt 720
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<210> 3409

<211> 204

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222>

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<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3409

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
ccctctgtgg tgagttcgtt ttga 204

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<210> 3410

<211> 192

<212> DNA

<213> B.fragilis

<220>

<221> unsure

<222>

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<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3410

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cctctgtggt	ga					192

<210> 3411
 <211> 186
 <212> DNA
 <213> B.fragilis

<220>
 <221> unsure
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 (19), (20), (21), (22), (23), (24), (25), (26), (27), (28), (29), (30), (31), (32), (33), (34),
 (35), (36), (37), (38), (39), (40), (41), (42), (48), (49)
 <223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3411	
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nnnnnnnnnn	nnccccnng
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tgagttcgtt	ttgaaaggaa
ttgttatttt	ctggccagac
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tcagtgaatt	cagcagcaca
cttacacttg	aaaatgccat
cgctgcactg	gcaagcatcg
180	
gattga	186

<210> 3412
 <211> 2304
 <212> DNA
 <213> B.fragilis

<400> 3412	
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<210> 3413

<211> 573

<212> DNA

<213> B.fragilis

<400> 3413

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<210> 3414

<211> 720

<212> DNA

<213> B.fragilis

<400> 3414

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<210> 3415

<211> 918

<212> DNA

<213> B.fragilis

<400> 3415

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<210> 3416

<211> 2016

<212> DNA

<213> B.fragilis

<400> 3416

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<210> 3417

<211> 2862

<212> DNA

<213> B.fragilis

<400> 3417

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<211> 2214

<212> DNA

<213> B.fragilis

<400> 3418

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ggaatcttgt	tccctgtcaa	cgggttgctg	ctcaatccga	tgcttgccag	tgcagcgatg	2160
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<210> 3419

<211> 645

<212> DNA

<213> B.fragilis

<400> 3419

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atagccgatg	ataatgaaga	catccttttc	acactgaaaa	tgctgttacg	ccccattgca	180
gaatcaatca	gcatacgcac	cgatccgaga	gaactgctcc	ccatcctgtc	acgcacacac	240
tatgatgtca	tcttgctgga	catgaatttc	aggaacgatg	ctgtcagcgg	acgggaagga	300
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gcttatgccg	ataccgaaaa	ggctgtacgg	accatcaagc	tcggcgctac	cgacttcatc	420
gccaagccct	ggcaaaacga	taagatgatt	gcaaccgcta	tctgcggcat	tgcaactcag	480
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gccggaaccg	gcccgaaatca	tcggcgaaatc	ggccgccatg	caggctatct	tccagaccat	600
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<210> 3420

<211> 399

<212> DNA

<213> B.fragilis

<400> 3420

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gctcaaggaa	aagcagaaat	aaagtttgat	aagacaacc	acgacttcgg	aacgttctcg	120

gaaaacaatc	ctgttgtgag	ttgcactttc	aagttcacaa	atatcggcga	tgccccgtta	180
gtcattcatc	aggctgtagc	atcctgcgga	tgtaccgtac	ccgaatatac	ccaggaacct	240
atcatgccgg	gaaaaacagg	tacaatcaag	gtgacttaca	acggaacgga	taaatatccg	300
ggacacttca	aaaagtccat	aaccctgcgt	acaaacgcca	agacggagat	gatacgtctt	360
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<210> 3421

<211> 957

<212> DNA

<213> B.fragilis

<400> 3421

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ctgttcatgg	ctaccggctt	gtcagcacia	aagcccgttg	agctgccttt	atggcccaac	180
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atcatcatgt	gtcccggcgg	tgcttacgct	ctcttggcca	tggatcatga	aggacacgac	360
atggcaccat	ggttcaattc	attgggcac	acctatgtgg	tactaaaata	ccggatgcct	420
aacggacact	gcgaggtgcc	tttgtcggat	gctgaacaag	cgatacgaat	agtgcggaaa	480
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ctccacattt	atcccacggg	cggacacgga	tgggggttct	atgacagttt	tgccataaaa	900
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<210> 3422

<211> 438

<212> DNA

<213> B.fragilis

<400> 3422

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acatttatga	agactaaaaa	aatgattgct	accctgggtg	tggctttgct	ctcggtgacg	180
gccgttatgg	caaaagactt	ccgtactgtc	gttttcaaag	tggcacagat	ggaatgtgcc	240
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accgatctta	aggaacgaac	tgttaccatt	acctatgatg	ccgagaagac	aaatgttgaa	360
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gaaacggaca	agaagtga					438

<210> 3423

<211> 321

<212> DNA

<213> B.fragilis

<400> 3423

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tctattgtta	gggtttcgga	ggttaaaaga	aaaagattat	tctctgggtg	tactcccga	120
gcagacaagt	ccgaactaac	agaaagagag	ccacatgctc	ttattacgca	ccttttcatt	180
ccgatagctt	cacgacatcg	ccattatgac	agcctgcaaa	gacatctgat	atcaaaaaa	240
aaatcgccaa	cccgcaggga	aggcgatatt	atccgttcag	tgcacatttg	ggcggaata	300
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<210> 3424

<211> 849

<212> DNA

<213> B.fragilis

<400> 3424

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acagttgcag	cacaggagag	cagcctggtg	ctgagtaacg	gactcgggtt	tgtcgacacc	180
ccctataagg	caggcaccct	ggaagtagat	gacacagaag	accttattat	caattgtgac	240
gaagtggatt	gtaccacttt	cgttgaatat	gactggcaa	tggccctctg	cccgcagcaa	300
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gtccgccaa	gctgtctcga	agatgtaacg	gctacctaca	gccccttcaa	acaaaaacta	480
tcgctctcgt	acatgagtac	gcatccggaa	ctctacaaat	cgttgaaaaa	ttctccggag	540
aacgtagccc	aaatggcaaa	gtatgaaaaa	gccttgagcg	gcaaagaggt	acactatctg	600
cccaaagaca	aactggaacc	ggacggactg	ccttggatca	agaacggaga	catcatcgcc	660
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gggcagttgc	acctgctgca	tgcttcatcc	aaagagggtg	aagtagtagt	gggcaaaacc	780
gcactgagcc	aaatgttgaa	agacagaaaa	tcactgaccg	gcatcagagt	gctgagaatg	840
aaaaataaa						849

<210> 3425

<211> 1404

<212> DNA

<213> B.fragilis

<400> 3425

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acagcagccc	ttttgatctg	ctgttacacc	accgtgtggt	taggcatgca	cggtttctat	180
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caatatcttc	aggctctggc	caaccacatc	gatatgtccg	tattggtata	tacccttcc	480
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atagaagact	ttgacggcaa	tgaagaagag	cgggcccga	tacgccggat	gttacaaccc	900
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<210> 3426

<211> 849

<212> DNA

<213> B.fragilis

<400> 3426

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catcattcca	tgccaaaatc	tcgcacggaa	gatctacttg	tggaaagtca	aacttcatat	120

tactttcttt	ttttgaatca	cgcaaatata	cacattttct	tttatttttt	tatctttgtc	180
cttatgaaaa	caattacaac	cgattgggaa	cttattccat	attctgaggc	atggagccgc	240
cagacggaat	ggttcgaatc	ccttggtccat	gcgaagcaga	acggggagag	ttacgagaac	300
cgtataatct	tttgtgaaca	tccgcacgtt	tacacgctgg	ggcgtagcgg	gaaagaaaat	360
aatatgttgc	tgaggagagga	gcaactgaag	actatcggtg	ccactctcta	tcatatcgat	420
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atccatcctt	gtggtttcat	tgataagggg	gtgacctcgc	ttcagcaaga	acttggccgt	780
agcatcgata	tggcggaggt	gaaagaacgg	ttgggcccgg	agttgcttgc	tgaccttttg	840
tcaaaatga						849

<210> 3427

<211> 666

<212> DNA

<213> B.fragilis

<400> 3427

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tgctttt	atgacga	acaagct	aagaact	tcgtcac	caatctga	180
ataaaac	atctga	tcacctg	ctggatc	ttttcgg	tccattcat	240
cttcgcg	atgtgtc	tgccga	aatcagg	acgagtac	gatagacga	300
gccccca	agagtcg	gttcgg	caactga	aagcacc	cccactgg	360
aaatatc	atgacgg	catcatc	ttcggaa	caactgg	agcaatcc	420
gtaccgg	actctcc	aagcctt	tattact	gggctga	ctgtatgt	480
tcgggca	tgctgtt	gggaagc	ggacggg	acctggc	aggcaact	540
gatgaac	tgaacac	ctgcagc	ctgttcg	tccccaa	aacaatcg	600
tatccgg	acggagc	gactacc	ggaatag	aggcgg	tccgttct	660
aggtaa						666

<210> 3428

<211> 390

<212> DNA

<213> B.fragilis

<400> 3428

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gtgataa	ctcctgc	ggaaagt	gtacag	caccaccc	taccaat	180
gccacc	ctgaagg	tttcaacc	acagcca	taacgac	tgccaga	240
aatgtc	gagtc	cgatacg	ttagtgc	cgatagc	tgcatgg	300
gctacc	tgaac	tgaaatt	gccacc	ggatag	cagtgt	360
accaggt	cttgc	atcgaa				390

<210> 3429

<211> 891

<212> DNA

<213> B.fragilis

<400> 3429

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gactttc	aagtag	tccgtgc	attttgg	ggaat	aaccg	120
atattaa	tctacaa	atcatgc	ctgaaag	gcattct	tatttgt	180
gaaggca	tgaccg	cattaat	attgact	agataaa	gaacgat	240
atcacac	taccggg	cattatc	ttccg	gcacgg	agtag	300
tgctttg	gattctc	ggaatgc	gaacgc	atctgat	atcaatg	360

agttccttct	ccaaaataac	cgaatgtccg	attgtagagt	tgcaggagga	tatagccagc	420
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atgactatcc	aggaaatcgc	ttattcactg	aacttcccc	gtgcttcgtt	ctttggaaaa	840
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<210> 3430

<211> 714

<212> DNA

<213> B.fragilis

<400> 3430

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gacttgacgg	aagagcaacg	caaacaattc	gctgcgcttt	acgaacttta	cattgactgg	180
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cttcattcgc	tgggtatcgc	ccgtgtcatc	cgtttccggg	ccggcagcag	tgtcatggac	300
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gaactggaac	acgaggcgat	gccgtttaag	cataagacaa	gtatgcataa	cctgaatgaa	660
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<210> 3431

<211> 405

<212> DNA

<213> B.fragilis

<400> 3431

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agctcagctg	ccagcagaac	attcttgaaa	tgtcttctct	gtacttgggc	ccaaagccat	180
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ttgccgatgc	ccaccatcag	agcggtagga	gtagcaagtc	ccaaagcaca	cggacaggca	360
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<210> 3432

<211> 1017

<212> DNA

<213> B.fragilis

<400> 3432

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cactttttac	aacgctatcg	gaaaaaatat	aaaaaagaag	tccggggcat	ttcgaaagaa	720
gcgcgcagat	tgatgcaact	ctatcggttg	ccggggaatg	tacgcgagct	agaacatacc	780
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cgcgaaacca	tcagcgaagt	actccggctt	tgtgccggca	acattacgtt	agcctcagaa	960
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<210> 3433

<211> 477

<212> DNA

<213> B.fragilis

<400> 3433

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ctccttatag	tatatgtagg	agcgggagtc	tctgttgccc	aatattgttg	cagtgggttg	180
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aagcaggcat	tcgaatcctc	tgttcctgct	cctgtcagct	tggtgctttg	tgaccaggta	360
tcggacttgc	tatgcgctct	tttccgcat	gaggtgttgg	atcctcctta	tgtgataccg	420
ccaccaaga	caagttcccg	gcattatctg	gctctttatt	ctactttgct	tatttag	477

<210> 3434

<211> 1302

<212> DNA

<213> B.fragilis

<400> 3434

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attatgagcc	gtagagcctt	cggaataact	tattttgtat	atggggcaac	agtcctttct	180
gtccttgccg	aaagagcaga	gattctgtcc	tccaccctt	ccgtggggag	ccggatatct	240
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cataagtggg	atataatcat	ttgcctaagt	gtaatcgctg	tgtgcctttc	tttcgtagtg	420
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tccatcgagg	acgattttga	gattgaagag	tttattccag	ggttgaattg	gaatgaaaaa	720
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<210> 3435

<211> 801

<212> DNA

<213> B.fragilis

<400> 3435

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gtcgccactt	gcactattta	ttcaggatac	gaccggatgg	tatgtttcat	agctctaata	720
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<210> 3436

<211> 666

<212> DNA

<213> B.fragilis

<400> 3436

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aaccgctatt	gccggcaagc	aggtatttcc	cgacgggctg	cagagcattt	actggctaaa	600
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<210> 3437

<211> 915

<212> DNA

<213> B.fragilis

<400> 3437

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<210> 3438

<211> 186

<212> DNA

<213> B.fragilis

<400> 3438

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aaggtaagg	tgattaaatg	tgattttccg	acttcggtag	tgaccgagat	ggtagattcg	180
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<210> 3439

<211> 909

<212> DNA

<213> B.fragilis

<400> 3439

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<210> 3440

<211> 981

<212> DNA

<213> B.fragilis

<400> 3440

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<210> 3441

<211> 228

<212> DNA

<213> B.fragilis

<400> 3441

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aaagaagacc	caaaacgtta	tgaaaaagaa	tttattaatt	ttagtcgcac	tgctgacatc	180
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<210> 3442

<211> 1542

<212> DNA

<213> B.fragilis

<400> 3442

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<210> 3443

<211> 186

<212> DNA

<213> B.fragilis

<400> 3443

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<210> 3444

<211> 756

<212> DNA

<213> B.fragilis

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<211> 4338

<212> DNA

<213> B. fragilis

<400> 3445

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<210> 3446

<211> 1032

<212> DNA

<213> B.fragilis

<400> 3446

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cgatggctgc	tcgatcagga	gcacgcccgg	gaaaaggaga	cggcactgca	cgatttatgg	180
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aaattcaact	tccgttttctg	tgaaaaaatcc	actttggaag	atatacctgaa	cattatgcag	960
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<210> 3447

<211> 192
 <212> DNA
 <213> B.fragilis

<400> 3447
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 aaggtaaaga agagttccat ctctgtttcc gtcgcattgg gatttgacgc tgtggtgctg 180
 aacctgtat aa 192

<210> 3448
 <211> 870
 <212> DNA
 <213> B.fragilis

<400> 3448
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 atcagttatc atttgttttt aacgattgag attgttatga ttctttttat ctacgataaa 120
 acacttgatg gcttgctgac agcactattc gatgcttata accgcaagac ctttcctgat 180
 gtcttactct cgaaaggaga tactttacca cttttctatg atgacatttt tacggttatc 240
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 gccctttcag ctatcacctg gtgttggtct tcagagttac cgggaagtagg tatgcttttg 360
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 cagcacaatg ctttaccttt gacggtaggt cacttttaag atcgttttgc cgatcaacgg 600
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 gaagtgcacat ttgatgatga tggccaagca gcacatctga ttaccggaat gttggacgaa 720
 agcttgatgg ataaggacga aaaacttttc caacaacttt ggaagactta ttttaaatct 780
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 tgggaagtata tcaccgaaaa acagaaataa 870

<210> 3449
 <211> 1122
 <212> DNA
 <213> B.fragilis

<400> 3449
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 gccgtgttcc atttcatcgt gaacgagatc caccgcgtgg aaggctatta catgatcatg 180
 gactccgacg gcctgttcga cgtctcggac tattcccga tggacgagca acgcatcgcg 240
 ggtattgtcg actattgcgc cgagctgggg cttttcgaca aagggtcttg gcggagccgt 300
 caggtcctca ccagcgagga gatacagaac aggtatatgg gcactcgcaa gtctatccac 360
 cgcaagcctt ccatctcgga tgactacctg cttttgaatg cggctgcccc ggccgccacc 420
 tcttccccgc aggtggccgc tccctgtccc gccaccata cggcacctgt tgctgaacct 480
 gcgcggaccg gcgaaaaaga gaaggatagc gaactgatgc aggccattgc ggattttaaa 540
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 cgcgaaaata gaccacaaaa taaaataaaa gaaaatatat cctcccaaaa cccctccgga 660
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 ttggtactgg atacagctct gaaggagacc tggggaaaaca aaaagatcaa aagccccacc 1080
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<210> 3450

<211> 378
 <212> DNA
 <213> B.fragilis

<400> 3450

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gtgaaacgtc	tgcagtcctt	gagttccgat	gaactatttc	ggaagtacca	ggagtcacgc	180
cgggtgcaagc	tgcaagaacta	tgagcaggcc	gtcgtatcct	tactcttcac	ttttccttcc	240
acttccagca	gtcgtgtcca	cgactattta	aaagaacatt	atcctgattt	tccaaacgtc	300
tgtgataaga	ctgtgcgcaa	ttacgtgcag	tttatccgga	agaaacacca	tcttccattc	360
cggctctgtc	gtttatga					378

<210> 3451
 <211> 912
 <212> DNA
 <213> B.fragilis

<400> 3451

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gtaaccctta	tcataatgat	tctgctgagt	atcctgcttg	ctataatcga	aagccttcaa	180
ggctctgcctt	cctggctttc	cactcccttt	atcgtgcttg	aatatctttt	cacagttttt	240
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agttttttcg	gtattgtcga	tcttctggct	acattgccac	tctaccttgc	cttcttcctg	360
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ttcaagttgt	tcaacttctg	gctcgaaggt	gaacgtctac	tcacttcctt	gcgggaaagc	480
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ttaatgtaca	tgattgaagg	gactcaaccc	aatacacaat	ttaataacat	tccgaatagt	600
atctattggg	ccattgtcac	catgaccacc	gtaggctatg	gagacatcac	tctgtctacc	660
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cataaattga	aaaatgatga	aatttaccgg	caggaaaaaca	cggcaactga	tccggatcgg	900
actacttcat	aa					912

<210> 3452
 <211> 450
 <212> DNA
 <213> B.fragilis

<400> 3452

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cacatgaaga	agtttatatt	aatcaccttg	acgttgcttt	atgccgttgt	ttcatcaggc	120
ataacgatta	atttccatta	ctgcatgggc	cgtcttgcgg	atgtagagtg	gggaagtgcg	180
tccgtttgtg	catcgtgtgg	agagaagaag	atgacctcac	attgttgtaa	agacgaggcg	240
cattacgtca	aactggcgg	agatcaggat	gtgaaccacg	taccggtaac	taatctatta	300
ccggcagtga	cagaactgtt	acctgtgatg	tatagtgtct	ttataccatt	ggaggcagaa	360
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tttgttcatc	attgtactta	tctgatttag				450

<210> 3453
 <211> 267
 <212> DNA
 <213> B.fragilis

<400> 3453

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ccggacatgt	ctctaccgga	agagctgccg	gcagaaacac	ctggagtacc	cgcaggcgcc	120

gggctgcccc	ttcctcccat	accggacatg	ccactccccg	aagaaagtgc	aggcggcatc	180
gaagcaactg	acgttacaga	agtcgacgag	ggagctgcct	gtgccgacga	agcggaaaag	240
cggttcagtg	ccaactgctc	gagttga				267

<210> 3454

<211> 207

<212> DNA

<213> B.fragilis

<400> 3454

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ggattgcttc	ataaaaagaga	aacgaatgct	ttgtcaaagg	ggagaaaacg	ccctgttgaa	120
agggaaatggc	agacctctcc	caaaggaaaa	atcgacacgac	ccaaagaagg	cagtcagcct	180
gccgaagaga	aaaaacctac	tatctga				207

<210> 3455

<211> 258

<212> DNA

<213> B.fragilis

<400> 3455

aacaggcgga	ctgatgcgga	ttccaggtgg	ggtacatacc	ctccggaggt	ccgtttcagt	60
ccgcctgttc	cgtatcagat	gttcactgaa	cgcaaaatgt	cgtttgtttt	atttctcaac	120
gattgttccc	ggaagacaaa	aattattatct	tttcggataa	acaaacctac	tcaaaagaat	180
gaaacctgtt	ttgcatgcct	gagtacagta	aaaaaatacg	ggagaagtca	tgctgcgttg	240
ttctatagcc	gcttgtga					258

<210> 3456

<211> 417

<212> DNA

<213> B.fragilis

<400> 3456

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aacagccata	tgtattttcat	acactccata	cagacctatg	catcggtgaa	ccggaaggga	120
agcgagctcc	aggaatatgt	cctgcagctc	aaggacagcc	tgataaagaa	cagggagttc	180
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cacgtgaaag	gcaagccgga	taacctgata	tgtattatct	cgattacgaa	agtcagaaac	360
ctgctgggag	aaggaaccgg	tttctttccc	cgggcaaaga	caggaggtaa	gggatga	417

<210> 3457

<211> 495

<212> DNA

<213> B.fragilis

<400> 3457

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cccaaggctg	atggaatcgc	ctggtcgcag	gacggtggtt	actattgtgc	cgatttttatg	180
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acagagtggg	gagataccga	tgaactttct	gccacggtat	ataatgcgta	tgcttccgga	300
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attattgtca	ttaaggtggg	acagcaaaat	gtagacatcc	agtatcaact	gttctatagt	420
tcgaatggga	cattgctgcg	tactcgcaat	gtgagctata	tggatgatat	attgggcccc	480
ggtacttttt	tgtag					495

<210> 3458

<211> 186

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actccgaaaa	agggcgagcc	gcgcgtgctg	cccatctatc	aaagtactac	ttttaaatatc	180
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cgtctgcaaa	atccgacgaa	cgacgctgta	gccgcaaga	ttgccgctct	cgaaggagga	300
gtgggagcta	tgttgacttc	cagtggacag	gctgccaat	tctatgccat	attcaacatt	360
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gaagaagaga	tttcggcggc	tttcgcgtccg	aatacgaag	cactgttcgg	cgagaccatc	540
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tgtgtgcttc	atccccgccag	tcatacgcat	cgccagctga	cagacgaaca	attgatagaa	1260
gccggtgttc	gtccggatct	gatccgcttg	tcgggtggaa	tcgaaaatgc	agatgatatt	1320
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<210> 3462

<211> 684

<212> DNA

<213> B.fragilis

<400> 3462

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acacactttc	tggtgtcatt	gggtagtgc	ctgattatga	tcgtttctca	atacggcttt	180
caagaaatca	taaaagaaaa	tagtgttaca	ctcgatccaa	gccgtgtagc	ggcacaagta	240
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tatcagatgg	atacacagaa	gcacggaagc	atagaaacct	atcaagtgc	aatgatcatc	600
aatccaaac	ggaacaatga	cgaaggacat	ttgctatctt	taatacaaga	atttcctgaa	660
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<210> 3463

<211> 276

<212> DNA

<213> B.fragilis

<400> 3463

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agcgaacgta	aagaactgga	tacctccgag	ttcggcatac	cccaattaag	agagttcccc	120
atccacgacg	ccgcccattg	acgcgcggca	gaagcctact	tcaggatgc	gcccgagag	180
tataaagcgc	agttggcacg	gaacatcctg	gccaaagcac	atctgttggg	agtgaacgta	240
aaaagccccg	ccatcctgga	gtgggcagag	aaataa			276

<210> 3464

<211> 1437

<212> DNA

<213> B.fragilis

<400> 3464

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gagacccttt	ggatggttcg	tgccaagaga	gacaagatga	gcaaggaagt	acccgagtgg	180
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1359

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aagtataacg	atttggatgc	gtggggaaaa	ggacgagaac	ttcctaaatt	cgcgggcgaa	1380
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<210> 3465

<211> 288

<212> DNA

<213> B.fragilis

<400> 3465

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cggaaaggga	cgcttcaaaa	tccgaatgta	accctggaag	agctggagaa	gatagaaaaag	180
gccacccgtg	aaaaggaaaa	agcggaaaca	caatattatc	tgcgcgccac	gctgatcttc	240
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<210> 3466

<211> 453

<212> DNA

<213> B.fragilis

<400> 3466

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<210> 3467

<211> 1632

<212> DNA

<213> B.fragilis

<400> 3467

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<210> 3468

<211> 903

<212> DNA

<213> B.fragilis

<400> 3468

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<210> 3469

<211> 192

<212> DNA

<213> B.fragilis

<400> 3469

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<210> 3470

<211> 846

<212> DNA

<213> B.fragilis

<400> 3470

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<210> 3471

<211> 1560

<212> DNA

<213> B. fragilis

<400> 3471

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<210> 3472

<211> 1056

<212> DNA

<213> B. fragilis

<400> 3472

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<210> 3473

<211> 3285

<212> DNA

<213> B. fragilis

<400> 3473

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<211> 297

<212> DNA

<213> B.fragilis

<400> 3474

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<210> 3475

<211> 540

<212> DNA

<213> B.fragilis

<400> 3475

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<210> 3476

<211> 2310

<212> DNA

<213> B.fragilis

<400> 3476

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<210> 3477

<211> 954

<212> DNA

<213> B. fragilis

<400> 3477

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<210> 3478

<211> 2313

<212> DNA

<213> B. fragilis

<400> 3478

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<210> 3479

<211> 366

<212> DNA

<213> B. fragilis

<400> 3479

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<210> 3480

<211> 207

<212> DNA

<213> B. fragilis

<400> 3480

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<210> 3481
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 <212> DNA
 <213> B.fragilis

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 caaggcaatg taggaggaat cggagtcttt catattaatg aagacgcatt tgaagacgaa 780
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<210> 3482
 <211> 891
 <212> DNA
 <213> B.fragilis

<400> 3482
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 caggagatag cagacaggct gaattttccc gaccagtcgt atctgggtag gtattttaag 840
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<210> 3483
 <211> 585
 <212> DNA
 <213> B.fragilis

<400> 3483
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 gcaggcttat ctacttttt caatgtttta aaagaaagta tatga 585

<210> 3484
 <211> 1185
 <212> DNA
 <213> B.fragilis

<400> 3484

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<210> 3485
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 <212> DNA
 <213> B.fragilis

<400> 3485

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<210> 3486
 <211> 549
 <212> DNA
 <213> B.fragilis

<400> 3486

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<210> 3487

<211> 1101

<212> DNA

<213> B.fragilis

<400> 3487

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<210> 3488

<211> 747

<212> DNA

<213> B.fragilis

<400> 3488

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<210> 3489

<211> 1218

<212> DNA

<213> B.fragilis

<400> 3489

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<210> 3490

<211> 1434

<212> DNA

<213> B.fragilis

<400> 3490

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<210> 3491

<211> 963

<212> DNA

<213> B.fragilis

<400> 3491

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<210> 3492

<211> 1332

<212> DNA

<213> B.fragilis

<400> 3492

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<210> 3493

<211> 759

<212> DNA

<213> B.fragilis

<400> 3493

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<210> 3494

<211> 876

<212> DNA

<213> B.fragilis

<400> 3494

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<210> 3495

<211> 603

<212> DNA

<213> B.fragilis

<400> 3495

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<210> 3496

<211> 498

<212> DNA

<213> B.fragilis

<400> 3496

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<210> 3497
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 <212> DNA
 <213> B.fragilis

<400> 3497						
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<210> 3498
 <211> 183
 <212> DNA
 <213> B.fragilis

<400> 3498						
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<210> 3499
 <211> 237
 <212> DNA
 <213> B.fragilis

<400> 3499						
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gagtcatttt	gccgttttcg	cttcggcgca	gccatccgtt	gtggaggtgc	cttctgtttc	180
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<210> 3500
 <211> 387
 <212> DNA
 <213> B.fragilis

<400> 3500
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<210> 3501
 <211> 243
 <212> DNA
 <213> B.fragilis

<400> 3501
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<210> 3502
 <211> 1122
 <212> DNA
 <213> B.fragilis

<400> 3502
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<210> 3503
 <211> 417
 <212> DNA
 <213> B.fragilis

<400> 3503
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<210> 3504

<211> 1173

<212> DNA

<213> B.fragilis

<400> 3504

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<210> 3505

<211> 936

<212> DNA

<213> B.fragilis

<400> 3505

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<210> 3506

<211> 1659

<212> DNA
<213> B.fragilis

<400> 3506

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aaagccattg	ccgcagcggg	gcatgatacg	gataagtaca	aggccgtcaa	agcagtttac	1620
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<210> 3507

<211> 1185

<212> DNA

<213> B.fragilis

<400> 3507

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 <212> DNA
 <213> B.fragilis

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<210> 3509
 <211> 333
 <212> DNA
 <213> B.fragilis

<400> 3509
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<210> 3510
 <211> 1308
 <212> DNA
 <213> B.fragilis

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<210> 3511

<211> 249

<212> DNA

<213> B.fragilis

<400> 3511

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<210> 3512

<211> 741

<212> DNA

<213> B.fragilis

<400> 3512

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<210> 3513

<211> 2112

<212> DNA

<213> B.fragilis

<400> 3513

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 <212> DNA
 <213> B.fragilis

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ggcgtaactt	atcatatact
ttttttttcc	tattttttgccc
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<212> DNA

<213> B. fragilis

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<213> B.fragilis

<400> 3522

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aatatcaggc	tcaatgcgta	tcgggagcac	tacaggaacg	tggtccgga	gaagattata	180
gctatgggtg	catatcagtt	ttcactggag	aagctacagt	tgctgcaacg	taatgatacc	240
caaccgtata	cggccaagat	agaagaactt	acggaaatgc	tggaagagta	tttcaggaac	300
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<210> 3523

<211> 558

<212> DNA

<213> B.fragilis

<400> 3523

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aacatgactc	cagatttcga	ttacagtga	gtgcctttcg	gattcaacta	ttgcctcaac	180
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catgtgcctt	acagtgcgcg	agtcagcatc	aaaagacaaa	tgctggcaca	cttcaagcag	420
gccacttatt	atcgttgccg	ccgcaaagaa	cggtatgctg	atccttccga	acaggaatat	480
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<210> 3524
 <211> 291
 <212> DNA
 <213> B.fragilis

<400> 3524
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 ggggcactcc gggaggtatt cccaagatc acctggcagg actcaccctg agtggttaaca 180
 ctggaggtac tccccctgtga ggagaccttc cgctgcgcc tgtcaaagaa ctgcgggttat 240
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<210> 3525
 <211> 429
 <212> DNA
 <213> B.fragilis

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 ttatcgctac ccgtagaaca atatccggac attgccccgc ccaccatcat ggtgagcacc 180
 agttacttcg gtgccagcgc agaaactctg aaaaagagtg ttatcgcgcc actcgaagag 240
 gccatcaacg gtgtggaaga catgacctac atgacctcca gcgctaccaa tgccggaaca 300
 gtctctatca ccgtctactt taaacagggg actgacctcg acatggcgcc ggtgaatgta 360
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 accacttga 429

<210> 3526
 <211> 1125
 <212> DNA
 <213> B.fragilis

<400> 3526
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 ataacccttg cgcctaccga ccggacgcta tcgagtacgt actcggcaac aatacgcgga 180
 cgccaagaca tcgaaatcta tccgcaagtg agcggtagac tgacacaggt gtgtgtcagc 240
 gaaggagaac gggtaaaaacg gggacagtcg ttgttcatca tcgaccaagt gccttacgaa 300
 gctgccctgc agacagcatt ggcaaactg gaagcagcca aagcctcact ggctacagca 360
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<210> 3527
 <211> 186
 <212> DNA
 <213> B.fragilis

<400> 3527

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tcattggaaa	tcgaaaaagc	aatgaaagaa	ttccgtaaag	tatctttgga	agaatcaaag	180
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<210> 3528

<211> 681

<212> DNA

<213> B.fragilis

<400> 3528

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<210> 3529

<211> 1236

<212> DNA

<213> B.fragilis

<400> 3529

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ataatttata	cgaaataccg	tatgaaagaa	gaggacttta	taattattgc	cggaaatggt	180
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caaatagaat	ggaaaaaatc	aataatgaaa	aacggaaccg	ccgctgctta	tcaaagtacc	420
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aaagaagaaa	tgacacttgt	ctatcttaag	gaattggatt	tggctcctct	tcaccggatc	1200
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<210> 3530

<211> 198

<212> DNA

<213> B.fragilis

<400> 3530

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ggtgcgaaac	gtagagttta	taaagacacg	agagagagct	tttttcttat	tgaatccgat	180
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<210> 3531
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 <212> DNA
 <213> B.fragilis

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<210> 3532
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 <212> DNA
 <213> B.fragilis

<400> 3532						
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<210> 3533

<211> 333

<212> DNA

<213> B.fragilis

<400> 3533

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<210> 3534

<211> 1389

<212> DNA

<213> B.fragilis

<400> 3534

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<210> 3535

<211> 192

<212> DNA

<213> B.fragilis

<400> 3535

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192

<210> 3536

<211> 3768

<212> DNA

<213> B.fragilis

<400> 3536

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<211> 882

<212> DNA

<213> B.fragilis

<400> 3537

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<210> 3538

<211> 1134

<212> DNA

<213> B.fragilis

<400> 3538

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1134

<210> 3539

<211> 321

<212> DNA

<213> B.fragilis

<400> 3539

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<210> 3540

<211> 189

<212> DNA

<213> B.fragilis

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<210> 3541

<211> 1047

<212> DNA

<213> B.fragilis

<400> 3541

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<210> 3542

<211> 594

<212> DNA

<213> B.fragilis

<400> 3542

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<210> 3543

<211> 642

<212> DNA

<213> B.fragilis

<400> 3543

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<210> 3544

<211> 354

<212> DNA

<213> B.fragilis

<400> 3544

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<210> 3545

<211> 1656

<212> DNA

<213> B.fragilis

<400> 3545

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<210> 3546

<211> 681

<212> DNA

<213> B.fragilis

<400> 3546

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<211> 231

<212> DNA

<213> B.fragilis

<400> 3547

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<210> 3548

<211> 1599

<212> DNA

<213> B.fragilis

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<210> 3549

<211> 210

<212> DNA

<213> B. fragilis

<400> 3549

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<211> 1845

<212> DNA

<213> B. fragilis

<400> 3550

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<210> 3551

<211> 315

<212> DNA

<213> B.fragilis

<400> 3551

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attcgtggtg	aaatatctgt	tatgaatgat	aatgatgaat	taggaggact	gatagataat	180
gatgtcccg	ttacgggtcat	tggtcatgta	tgaccggaag	aatgtaatac	aacatgctta	240
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catgtttttg	tgtga					315

<210> 3552

<211> 576

<212> DNA

<213> B.fragilis

<400> 3552

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tatggacttt	gcctgaaata	cctgcatgat	gaagaccggg	cacaggaagc	agtcattgcaa	180
ctatttgaag	atttactacc	taagttggga	aattatgaga	taaaagtgtt	caagccatgg	240
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ccgttagatt	atacggttaa	tattatggaa	tctgacgaat	ttctgcatct	attaagtga	360
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gaacaacgga	ccagtattac	gcgtttcttt	ctcgaagaga	tgtcgtatgc	cgacattgtg	480
gaacaaaccg	gatttactct	gaacaatgtg	aagagctata	tccaaaatgg	aaaacgaaat	540
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<210> 3553

<211> 324

<212> DNA

<213> B.fragilis

<400> 3553

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gaaggattga	ttcccattct	tgctgatctt	tcagctacag	agaatgtacc	aaatccaacc	180
aaggaaattt	tgtcaccagc	cgacaaagct	tttgaaccg	aagaaaagaa	agcttcaagc	240
gctttcttag	aatccacttt	gctcaagccg	gattccgctg	ccattgcatt	aataagttca	300
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<210> 3554

<211> 1734

<212> DNA

<213> B.fragilis

<400> 3554

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catgcttctt	gttcgggaat	aaaaacatca	gatgagaaat	ctttaggtga	ttgtcctttg	180
gtagcgacct	ggaaacaggc	cggtagtgac	agtatagtgg	tattggacgt	cgggttgata	240
aaagataacca	tgagatacag	gtcagccag	ttggtagacg	acctggagat	tatcaagctt	300
gaaacccggg	atacggcatt	agtcaagtcc	ggatatatgg	cgggtctctga	ccggtacatg	360
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gatcctcaga	gcgggggctat	gaagaataag	agcgagggaa	cttgtgggct	gaaagagttg	1620
gatgaagaag	ccttaaggct	gatccggcag	gctaaacttt	taccgggaat	gacagataaa	1680
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<210> 3555

<211> 195

<212> DNA

<213> B.fragilis

<400> 3555

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aaaaagaatg	cccaaccgga	ggccgaacag	gaagaaaacc	gggtcattga	aggggtcaaag	180
ccgggggatta	agtaa					195

<210> 3556

<211> 486

<212> DNA

<213> B.fragilis

<400> 3556

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gttttccgaa	aaagaagtaa	gcatttcctt	caaaagacgg	ttacattttc	taaaaacgct	180
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ttctttctga	cggaaaataa	aagccggaca	aaacaaaacg	ataaaccggg	aaacgaaata	420
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<210> 3557

<211> 1203
 <212> DNA
 <213> B.fragilis

<400> 3557

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<210> 3558
 <211> 324
 <212> DNA
 <213> B.fragilis

<400> 3558

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gaggctattg	ccgaggcgct	acatcaggga	gaatccgtca	cattggtagg	tttcggaacc	180
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actattccgg	gaaaaaagac	ggtgagattc	aaaccgggtg	caaagatgaa	tcttgagacg	300
aagcatcagg	atacctcccc	gtga				324

<210> 3559
 <211> 1839
 <212> DNA
 <213> B.fragilis

<400> 3559

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<210> 3560

<211> 1353

<212> DNA

<213> B.fragilis

<400> 3560

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<210> 3561

<211> 207

<212> DNA

<213> B.fragilis

<400> 3561

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<210> 3562
 <211> 1101
 <212> DNA
 <213> B. fragilis

<400> 3562
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<210> 3563
 <211> 258
 <212> DNA
 <213> B. fragilis

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 <213> B. fragilis

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<211> 465

<212> DNA

<213> B. fragilis

<400> 3565

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<212> DNA

<213> B. fragilis

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<211> 249

<212> DNA

<213> B. fragilis

<400> 3567

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<212> DNA

<213> B. fragilis

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<211> 381

<212> DNA

<213> B.fragilis

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<211> 1005

<212> DNA

<213> B.fragilis

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<212> DNA

<213> B.fragilis

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<211> 2406

<212> DNA

<213> B. fragilis

<400> 3572

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<213> B. fragilis

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<212> DNA

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<210> 3581

<211> 687

<212> DNA

<213> B.fragilis

<400> 3581

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<210> 3582

<211> 930

<212> DNA

<213> B.fragilis

<400> 3582

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aatacccgtc	agaacgatta	cgattacaac	gcccgcgaaga	aggcacaatc	ggacgagata	840
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<210> 3583

<211> 234

<212> DNA

<213> B.fragilis

<400> 3583

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tcggataaag	ttgtcgtagt	cgtaagactt	cctaacttcg	cctgtatcaa	ttcatcgga	180
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<210> 3584

<211> 1470

<212> DNA

<213> B.fragilis

<400> 3584

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<210> 3589

<211> 1281

<212> DNA

<213> B.fragilis

<400> 3589

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<210> 3590

<211> 303

<212> DNA

<213> B.fragilis

<400> 3590

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tgcaaccagc	ctctttcttc	cccaattggg	tcaactgattt	atcctccggt	tttagtaagt	300
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<210> 3591

<211> 324

<212> DNA

<213> B.fragilis

<400> 3591

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agtatcgttt	gtcttttttg	caatatgtca	aatgaaacct	cccagttttc	tttttttcga	180
ctctcgggac	aggcggggcc	ggaaaaacgt	ctctatttctg	tttcccggtt	tatcgttttg	240
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324

<210> 3592

<211> 210

<212> DNA

<213> B.fragilis

<400> 3592

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acgattgata	tgtgccgtgg	catgttgtgt	gcctgtcgcc	ttgcaggcac	aaaccagcga	180
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<210> 3593

<211> 3069

<212> DNA

<213> B.fragilis

<400> 3593

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<210> 3594

<211> 702

<212> DNA

<213> B.fragilis

<400> 3594

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<210> 3595

<211> 765

<212> DNA

<213> B.fragilis

<400> 3595

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<210> 3596

<211> 285

<212> DNA

<213> B.fragilis

<400> 3596

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<210> 3597

<211> 1884

<212> DNA

<213> B.fragilis

<400> 3597

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<210> 3598

<211> 924

<212> DNA

<213> B.fragilis

<400> 3598

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<210> 3599

<211> 777

<212> DNA

<213> B.fragilis

<400> 3599

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<210> 3600

<211> 474

<212> DNA

<213> B.fragilis

<400> 3600

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<210> 3601

<211> 1902

<212> DNA

<213> B.fragilis

<400> 3601

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<210> 3602

<211> 330

<212> DNA

<213> B.fragilis

<400> 3602

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cggccccatt	ttgatgcgga	gatgaatata	atgagtttgg	cctttgaacc	ggacttcaag	180
gcaattttct	tcccgaagat	tgattttgag	ggaaagattc	ccctgtttta	aagggcccg	240
aaacccttaa	aggataaaat	tttttctccc	aaagtccca	aatcccagga	taaatttttt	300
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<210> 3603

<211> 249

<212> DNA

<213> B.fragilis

<400> 3603

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agattcgtgc	acgttgccat	tcccagcgag	ccaatttgga	ttcgtaataa	aagccgtgac	180
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<210> 3604

<211> 414

<212> DNA

<213> B.fragilis

<400> 3604

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ggcaagcgaa gcaagaaggc ggctgccatt ctcaagtgaga aaggatataa agtgtacgaa 360
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<210> 3605
 <211> 924
 <212> DNA
 <213> B.fragilis

<400> 3605
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<210> 3606
 <211> 1176
 <212> DNA
 <213> B.fragilis

<400> 3606
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 ggaatcgcat ggttctccat gttttgccgt acctggaatt cactctccgg tgaagatatt 360
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<210> 3607
 <211> 714
 <212> DNA
 <213> B.fragilis

<400> 3607

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<210> 3608

<211> 1200

<212> DNA

<213> B.fragilis

<400> 3608

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<210> 3609

<211> 888

<212> DNA

<213> B.fragilis

<400> 3609

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<210> 3610
<211> 216
<212> DNA
<213> B.fragilis

<400> 3610
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ggactccaga aaggtttgat aacccatggt aaatag 216

<210> 3611
<211> 792
<212> DNA
<213> B.fragilis

<400> 3611
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<211> 240
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 <213> B.fragilis

<400> 3613

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<210> 3614
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 <212> DNA
 <213> B.fragilis

<400> 3614

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<210> 3615
 <211> 627
 <212> DNA
 <213> B.fragilis

<400> 3615

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<210> 3616
 <211> 420
 <212> DNA
 <213> B.fragilis

<400> 3616

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<210> 3617

<211> 894

<212> DNA

<213> B. fragilis

<400> 3617

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<210> 3618

<211> 768

<212> DNA

<213> B. fragilis

<400> 3618

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<210> 3619

<211> 1371

<212> DNA

<213> B. fragilis

<400> 3619

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<210> 3620
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 <212> DNA
 <213> B.fragilis

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 <212> DNA
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<211> 1380

<212> DNA

<213> B. fragilis

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<211> 3366

<212> DNA

<213> B. fragilis

<400> 3623

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<210> 3624

<211> 528

<212> DNA

<213> B. fragilis

<220>

<221> unsure

<222> (388), (394), (426), (439)

<223> Identity of nucleotide sequences at the above locations are unknown.

<400> 3624

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<210> 3625

<211> 2682

<212> DNA

<213> B.fragilis

<400> 3625

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<211> 336

<212> DNA

<213> B. fragilis

<400> 3626

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<211> 2520

<212> DNA

<213> B. fragilis

<400> 3627

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<213> B. fragilis

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<212> DNA

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<211> 270

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<212> DNA

<213> B.fragilis

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<212> DNA

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<400> 3635

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ttggctacag	gagagtcgtt	ccccgatgga	gatatagcct	gtatcgggtga	cggatctgtg	180
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<210> 3636
 <211> 1215
 <212> DNA
 <213> B.fragilis

<400> 3636

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<210> 3637

<211> 1473

<212> DNA

<213> B. fragilis

<400> 3637

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tcacccagct	tcgatccact	accaggatgc	gaactacttt	atgtagacaa	gcttaccac	180
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<210> 3638

<211> 702

<212> DNA

<213> B. fragilis

<400> 3638

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caaggacttt	cgatgggtac	ggccgctcat	gccgtcggca	cctcaacagc	catggatatc	600
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<210> 3639

<211> 1026

<212> DNA

<213> B.fragilis

<400> 3639

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cgtaaaagacc	tgaccaatga	ctgtggatta	accttctgga	ttgtaggtga	tcaaatcaaa	960
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ggataa						1026

<210> 3640

<211> 1413

<212> DNA

<213> B.fragilis

<400> 3640

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acccctatc	atatcaacgg	ggaagagggtc	agcggcaaac	agggttgtag	ctatgataac	180
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ggaatcaacg	taattcatgt	ggaagattac	ctgaccagtg	tgatctcttc	tgaaatgagt	420
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<210> 3641

<211> 729

<212> DNA

<213> B.fragilis

<400> 3641

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gcttatgcag	ccgaaatgat	ttgtcgtgca	ggcgtagggc	gaatgacaat	agtagatgct	180
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ggaactgtga	gctatatgcc	ggcgggtgtt	ggttggtatt	tggcagagta	cgttatcaaa	720
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<210> 3642

<211> 186

<212> DNA

<213> B.fragilis

<400> 3642

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cagtcgaaaa	ta	aa	act	tg	ga	at	gt	ga	tg	tt	gc	at	tg	tt	gc	at	tg	tt	gc	at	tg	tt	gc	at	tg	120
gtgggtgcca	ga	ga	c	gg	g	ct	gt	ct	ta	ta	ta	ta	ta	ta	ta	ta	ta	ta	ta	ta	ta	ta	ta	ta	180	
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<210> 3643

<211> 1488

<212> DNA

<213> B.fragilis

<400> 3643

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gtaagtgttt	tcaataacaa	acgggtggag	attaccggaa	tagaagcccg	gaacgaagtg	180
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<210> 3644

<211> 972

<212> DNA

<213> B.fragilis

<400> 3644

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gccattaagt	acatcatgaa	caaattggga	ttgaatgtat	tcaatgggtgc	gagagtgacc	960
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<210> 3645

<211> 867

<212> DNA

<213> B.fragilis

<400> 3645

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867

<210> 3646

<211> 213

<212> DNA

<213> B. fragilis

<400> 3646

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aagaatgaag	ataccgatcc	agacagcgta	aattcacttc	cggaacttga	gctatcttat	180
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<210> 3647

<211> 2139

<212> DNA

<213> B. fragilis

<400> 3647

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<210> 3648

<211> 2910

<212> DNA

<213> B.fragilis

<400> 3648

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<210> 3649

<211> 1158

<212> DNA

<213> B.fragilis

<400> 3649

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<210> 3650

<211> 1803

<212> DNA

<213> B.fragilis

<400> 3650

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<210> 3651
 <211> 1026
 <212> DNA
 <213> B.fragilis

<400> 3651

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 <211> 714
 <212> DNA
 <213> B.fragilis

<400> 3652

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<210> 3653
 <211> 987
 <212> DNA
 <213> B.fragilis

<400> 3653

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<210> 3654

<211> 516

<212> DNA

<213> B.fragilis

<400> 3654

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<210> 3655

<211> 1353

<212> DNA

<213> B.fragilis

<400> 3655

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gcttttgtat	tcaatctatg	catcagcatc	gtaatgcttg	tcatttctta	taccaaacga	1320
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<210> 3656

<211> 1461

<212> DNA

<213> B.fragilis

<400> 3656

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actactccgg	aaatcgcta	tcagatgggtg	aaggacgaaa	cttttgctca	aactcagccc	180
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aacgaagcta	tcaatatcaa	ctacattgat	gagacagaat	atcctcgcat	tgctgtgatg	300
aacggtaaat	gtatcaatat	cggttgcta	ttgtggaact	ctccggaaaa	agataacctgg	360
aaaaccgggtg	cattggctat	cggttcttca	gaagcttgta	tggtgggtgg	tgtagctgcc	420
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cgtattgccc	aggagaagaa	tctgccggtg	gaagccaaag	tatttaacca	taccggtaaa	1440
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<210> 3657

<211> 579

<212> DNA

<213> B. fragilis

<400> 3657

agaatatcaa	gtatgattaa	tgctcaagac	atcaagaacg	gaacttgat	ccgcatggat	60
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atgcgtacaa	aactgaaaga	tgtagtaagc	ggctacgttc	tcgaacgtcg	cttcaatatac	180
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acagaaccgg	gcttgaaagg	cgacactgct	accaaacctt	tgaaccggc	tactgtagaa	480
tcaggtgcaa	ccgttcgtgt	cccgtgtttt	atcagtgaag	gcgaaacaat	cgagatcgat	540
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<210> 3658

<211> 1413

<212> DNA

<213> B. fragilis

<400> 3658

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tttgctatcg	gtgccgggtc	cgatctgttc	atcggtaaaa	tggataatac	ggagataccg	1380
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<210> 3659

<211> 1131

<212> DNA

<213> B.fragilis

<400> 3659

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cttataaaaa	acattatatt	tgtaaatgaa	ctccaaacct	atcccatatt	gaagcaaaca	120
gcctatata	acctgctcac	cctttcttgc	cttctctgcg	catgcaatag	agaaaacaga	180
acaaatttgc	cacagcccca	agtcaccggt	gtagcagatt	caactggaaac	ggtgcctccg	240
gaagagaagc	ccaaagccat	ctccgcagaa	cagatagaga	tcaaaaaaga	tttgctctat	300
gataaatata	ctcttgaaga	tacgtatccg	tacaaagata	cgacccgcag	ttttcaatgg	360
gataagatca	aagaacgcct	ggcactgtc	gaaaacattc	agcagacacc	ctcgcaatgg	420
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cggaaatgcct	ataaacgcac	tgccgacacg	ctgggcatag	agcgttacca	gtccgtcccg	540
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tggatgttac	ccaagaggta	cgtcaaagtg	ctcccggata	cgacacactt	catcaaaaca	720
atcatgatag	accgaagaga	ccagaacata	atgactttgg	aacaaaccgg	tgaagcccaa	780
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ctgggcacca	cgccccgctc	gcacatgtgt	gtacggaatg	caacatcaca	ttccaagttt	1080
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<210> 3660

<211> 1242

<212> DNA

<213> B.fragilis

<400> 3660

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cctctctgcc	atacagacat	tctctttcaa	gatatccgta	tgggagaggt	aacatattcg	120
caaaaatcca	tatatttgtg	ctttcaaate	gtcagcataa	tgaaaaagga	gtttacacga	180
atagccataa	aagtgggaag	taacgtactg	acccgacagg	acggaacact	ggatgtcacc	240
cggatgtctg	cgctaaccga	tcagatagcc	gccttgcata	aagccggagt	agaggtgatt	300
cttatctctt	cgggagctgt	tgccctcgga	cgaagcgaaa	tacgtaccct	caggaaactc	360
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tattacgagc	tgttccgcga	tcattggcatt	gctgtaggac	aggtactcac	caccaagag	480
aatttttgta	cacgccgtca	ttacctcaac	cagaaaaact	gcattgacgg	gatgcttgag	540
aacggcgtca	ttcctatcgt	caacgagaac	gacaccatct	ccgtcaccga	actgatgttc	600

acagacaatg	acgaactgtc	gggcctcatc	gcctcaatga	tgaatgcaca	ggcccttatac	660
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accgaagtgt	tgaactccga	caaggcagtc	agcattcttc	ccgtcgggaat	cacccgcatt	1080
gaaggagaat	ttgagaaaga	cgacatcgtg	cgcattcattg	attaccgggg	tactccggta	1140
ggtgtaggca	aagtcaactg	tgactccatg	caggcacggg	actccatcgg	aaaacatgga	1200
aaaaaagcag	tagtccatta	tgactacctt	tacattgaat	aa		1242

<210> 3661

<211> 528

<212> DNA

<213> B.fragilis

<400> 3661

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tggggcattg	tcgatcagga	tgaacgtacc	atcgtaggca	gtatcgccc	caatccgaaa	120
gaccggatgc	aaatggctgt	tatggccgat	cctacccaag	ggaaacatgc	cgtaacccac	180
taccgggtgc	ttgaacgtgt	gggatatgtc	acttttggtg	aatgtattct	tgaacccggg	240
cgtacgcatac	agatacgtgt	gcacatgaag	catatcggtc	atgtactctt	caatgacgag	300
cggtatggcg	gtcacgaaat	cctgaaaagg	actcacttta	gtaaatacaa	acaatttgta	360
aacaattgct	tcgacacttg	tccgcggcag	gctttgcacg	ccatgacgct	gggggttggtg	420
catcccgta	ctggcgaaaga	gatgcatttt	acttcggagt	tgccgggacga	catgacccgg	480
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<210> 3662

<211> 894

<212> DNA

<213> B.fragilis

<400> 3662

agaataatgg	gccgtcccat	taaaattatc	ggctatttat	gctttctgat	ggcactttgc	60
tcatgtaaag	agaccaaaga	gcagcaaata	tcccgtttga	ttcacaaatg	ggagggtaga	120
acgattgtct	atcccgtga	tatgacattc	agtgttttgg	gaaaggacag	tgccggttat	180
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aaactcgatg	aaatgggcga	ttttgattgg	aaaattcccc	agaccgctac	ttttagtttg	660
cggaaatcttg	gcgatcatct	tctgattatc	gaggacataa	atgcttcgtg	tggtctgtaca	720
tccgtcactt	acagtaagga	gcctgtacct	tcagggaagt	ctgccgatat	tcaggtaact	780
taccgtgcag	aacatcccga	acattttgag	aagaccatta	ctgtatattg	taatactccc	840
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<210> 3663

<211> 345

<212> DNA

<213> B.fragilis

<400> 3663

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atagtagata	tgctcaaac	cgtattcgat	cccgaaattc	cggtaaacgt	atacgatctg	120
ggactgattt	acaaaataga	tgtttccgag	gatggagaag	tatctattga	tatgaccttg	180

actgctccta	actgtcctgc	ggcagatttc	attatggaag	atgtacgtca	gaaagtagag	240
tcgattgacg	gggtaaactc	tgccacaatc	aatctggttt	ttgagccgga	gtgggataaa	300
gatatgatga	gcgaagaggc	taagttggaa	ttgggctttt	tgtaa		345

<210> 3664

<211> 1566

<212> DNA

<213> B.fragilis

<400> 3664

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ataccgtccg	ttatcacagc	acaggacgtg	aactatcaga	aggagtttga	tacttttcaa	120
gagaaacagc	aaaaagaata	taaagaattt	aagaataaag	cagacgaaga	gtttgccact	180
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aatgtggaag	tcaagaagcc	ggagctgccg	gcagtggctg	ataaaccggc	tccgggtggt	420
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agttcagcgc	atcgcaatgc	gattgagttt	tatggaacac	ggtttgaagt	ggctacagac	540
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<210> 3665

<211> 312

<212> DNA

<213> B.fragilis

<400> 3665

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ggtattttatc	atgttcaagc	gaacaaagag	gataaaaacg	tatcaacttt	agtattacaa	120
aatatttgagt	cattggctca	gaatgaagga	aatagtgatc	atggaaatat	tgatacgact	180
ctggaacctt	attattatca	aagttctaga	gattattggt	taccggggat	gaatggtaca	240
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gctcgttgtt	aa					312

<210> 3666

<211> 1275

<212> DNA

<213> B.fragilis

<400> 3666

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ggtgaatacc	gcaatggagt	attgaatcct	cgcccggaag	gagaagaacc	cactttcttt	180
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ctgactgccg	gttattctac	tatgcttgga	actaagtata	tggatatagt	aaagggaggc	1200
aaccataaaa	gttggaaga	ctggggctgg	ttgacactga	atatcaatcc	acgcatttta	1260
tttactaagt	ggtaa					1275

<210> 3667

<211> 258

<212> DNA

<213> B.fragilis

<400> 3667

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accggttcgc	cttggaagc	agagttcatc	aaaggattgc	tcgaaagcaa	tggaaatagaa	120
tctatcctga	aagacggagg	tgggctcgca	gctttggcac	cttactacat	cggacaggaa	180
atagctgtcc	tcgtcaatga	agacgattat	gaaaatgcaa	tggaaatagt	gagaaaccgc	240
gaaaaggcaa	acgaataa					258

<210> 3668

<211> 1131

<212> DNA

<213> B.fragilis

<400> 3668

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 <212> DNA
 <213> B. fragilis

<400> 3669

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 <212> DNA
 <213> B. fragilis

<400> 3670

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 <211> 1314
 <212> DNA
 <213> B.fragilis

<400> 3671

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 <212> DNA
 <213> B.fragilis

<400> 3672

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<210> 3673
 <211> 555

<212> DNA

<213> B.fragilis

<400> 3673

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<211> 609

<212> DNA

<213> B.fragilis

<400> 3674

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<210> 3675

<211> 1929

<212> DNA

<213> B.fragilis

<400> 3675

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<211> 654

<212> DNA

<213> B.fragilis

<400> 3676

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<211> 3084

<212> DNA

<213> B.fragilis

<400> 3677

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<210> 3678

<211> 264

<212> DNA

<213> B.fragilis

<400> 3678

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gtgtatttgc	atgtgggtca	gttgataat	gtcagactgt	tattgataaa	atttatagat	180
gaaactggag	gtagaaaaat	tatatatttat	ttgcaatcaa	ctcttttttt	gattttcttt	240
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<210> 3679

<211> 1029

<212> DNA

<213> B.fragilis

<400> 3679

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<210> 3680

<211> 318

<212> DNA

<213> B.fragilis

<400> 3680

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atggcaaagt	tagaagcatt	ggctgatggc	gaaggaacta	atgccggcta	ttgttatttg	180
gaagatactt	ggagtacaaa	aagaggttat	aaatattttt	gcgatagtaa	aactgataaa	240
aatacaatct	atccatgtcc	atcttcaatg	gagtcctggg	ggatatgatga	taataagcag	300
gacggtgta	ctaaataa					318

<210> 3681

<211> 942

<212> DNA

<213> B.fragilis

<400> 3681

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ggttgccctg	acagaataca	gttcaacccg	gcacgtattg	tttcttctgc	tgccaaagta	180
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gaaaaaatta	cagcaaatga	tattgccgac	attctcgggt	aagtatgcct	gagaccggca	900
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<210> 3682

<211> 750

<212> DNA

<213> B.fragilis

<400> 3682

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gaagatgatg	gtgctcctta	cccttccgtg	aggttggagt	ttctgactgc	agagtcggga	180
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gaccgcactg	aatcggagct	gttacccaat	tctcttagcc	gtgtggtgag	caattacgaa	300
gtgctttcgt	cggtaggagg	gcggaaaagag	atacgcat	atgcattagc	taatacgggt	360
tctccgggtt	cgtgcctgc	cggagaggtt	cgggaatggc	tgaaattcga	tccggttgat	420

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aagcgggctt	atgtctcggg	accgctgagg	cagtacacgt	ccgatatcgg	ggaatcagcg	660
atcattttatt	ttaatttttca	tacgtatgac	ggggaggtgc	agacctatca	gtttgaatac	720
gtacccagtc	acttaaccat	taattactaa				750

<210> 3683

<211> 495

<212> DNA

<213> B. fragilis

<400> 3683

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aaatatcccg	tatcgctctt	tatcattctt	gcggtcatct	atctgtcggt	cttcaaacct	180
ccttcaacgg	agattagtaa	aattcctaata	atcgataagg	tcgttcataat	ttgtatgtac	240
tttggcatgt	ccggtatgct	atggctggag	tttttacggg	cacaccgtag	agaccacact	300
ccggtgtggc	atgcttgggt	aggagcattc	atgtgtccgg	tggtgttcag	cggatgtgta	360
gaattgttgc	aggaatattg	tacgacctat	cgtgggggag	actggatgga	ctttgcagcc	420
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<210> 3684

<211> 192

<212> DNA

<213> B. fragilis

<400> 3684

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gtatattgta	atacttccac	ctctccaata	cgtttgaaga	ttcggggtaa	tgcagttgat	180
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<210> 3685

<211> 972

<212> DNA

<213> B. fragilis

<400> 3685

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tgccgtcgca	actgcgacct	ctctttttcc	aacttatgca	gttggcggtt	cttgtatcac	180
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gcctatatga	tgccggttgg	tgaaggcaat	cttgaagaag	tactgaacga	actgattgaa	300
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aatcacatta	acaaattccg	caatacatat	cctgactatg	agtattctcc	gatcacccaa	540
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<210> 3686

<211> 1368
 <212> DNA
 <213> B.fragilis

<400> 3686

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<210> 3687
 <211> 339
 <212> DNA
 <213> B.fragilis

<400> 3687

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tcttttagat	atgcatatat	catagttcca	atctctgtag	tctttgtgct	ttggggaggg	180
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<210> 3688
 <211> 195
 <212> DNA
 <213> B.fragilis

<400> 3688

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<210> 3689
 <211> 189
 <212> DNA
 <213> B.fragilis

<400> 3689

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ttagaaatat	tttatattat	aattgataat	ttacagattg	gttggttacag	agtaaaactt	180
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<210> 3690

<211> 507

<212> DNA

<213> B.fragilis

<400> 3690

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<210> 3691

<211> 1344

<212> DNA

<213> B.fragilis

<400> 3691

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<210> 3692

<211> 1215

<212> DNA

<213> B.fragilis

<400> 3692

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aacttgagta	atcttagtga	cgaagaaatt	tggaaaaaag	ggataaaact	agactactta	1020
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ctggtcggta	ccgactatgt	acgtaaaatg	atagaaggag	gtaaaagtgc	tgatgaaata	1140
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<210> 3693

<211> 1485

<212> DNA

<213> B. fragilis

<400> 3693

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ggcttctttg	tgggtaaccg	caaatacagct	tgggtatgtag	tggcttttcgc	catgatcggc	180
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tggtttcacg	gctatcaatt	cagttatgag	ctattgatat	tcaatgcctt	gtttactttt	1440
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<210> 3694

<211> 567

<212> DNA

<213> B. fragilis

<400> 3694

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cttaaatctg	gtcacatcaa	tgcgatggaa	attgtttcgg	ccatgccgga	atataccaaa	180
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attgcagaaa	gaagacaaaa	agagttggaa	gacatgatgc	agagacaaga	acaattccag	360
gctaaggctc	agcaggatat	ggaaaaagcc	aacaatgacc	tgatggctcc	ggtatataag	420
aagctggatg	acgctatcaa	agcagtaggt	gcagcagaag	gtgttatcta	cattttcgat	480
atggcacgta	ctccgatacc	ttacgtaaac	gaagctcaaa	gcattaacct	gactccgaaa	540
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<210> 3695

<211> 1566

<212> DNA

<213> B.fragilis

<400> 3695

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gtgtatgact	acggacagat	gggtgttgaa	ctgaaaaaca	atattaaaaa	atactggtgg	180
gacagcatgg	tgttgctgca	cgaaaacatt	gtcggatttg	actctgcaat	ctttatgcac	240
cctaccatct	ggaaggcttc	cggacatgtg	gatgcattta	acgatccgtt	gattgataat	300
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gatgataaga	ttaataaaga	ggtggccaaa	gctgccaaaa	gatttggtga	agctttcgac	420
gaagctcagt	tccgcagcac	caatgggcgt	gttcttgagc	atcaggcaaa	gcgtgatgca	480
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taccgtcgtc	aggagccat	cggtactccg	tactgtgtga	ctggtgacca	tcagacattg	1440
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<210> 3696

<211> 1074

<212> DNA

<213> B.fragilis

<400> 3696

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ttgttgcgta	caattgatga	agacttggaa	tgtagattcc	gaaaaattgaa	acccaatcag	180
gcgtacgtha	ccggaaagaa	acatacaaa	aataagaaag	taacccttac	agataagagc	240
gggactcaca	atgtacgtca	atttgccatt	gatactgttt	atacggatac	atctttttgtg	300
catagagtta	aacaatctta	ccttatagag	cgaaactcta	ttaatgtgga	ttctctgaat	360
cagaaatggc	agttgaaact	tcgtatggat	ggaactctgt	ctaataccgg	aataaaaacta	420
acaaattctc	taaagaacgg	agagcggata	tcggcatcga	gtgggctaaa	tgaacccgat	480
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gttcaagttt	tatctaagtt	cagaatagta	gataatcatg	ttaaatcgtc	gcaaccgctt	720
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ttacgtactg	atttaaggaa	aataggggct	aatcttgggt	ttactttggg	aatggagggc	1020
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<210> 3697

<211> 591

<212> DNA

<213> B.fragilis

<400> 3697

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aatatgcgtt	tcggcgaaac	catcgatttc	agtatccgca	tatccaaggg	aggataccaa	180
tgccgtctct	ttcccgatgc	ctgggtgtac	cacaaacgac	gtacggattt	taagaaattc	240
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tcgttgaaag	tcgtccattt	gctgccggtt	gtattcacgt	caggagttgc	acttctacta	360
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tctttcatcc	aacttatcgg	atacggcaca	ggattctggc	gtgcctgggtg	ggaacgctgt	540
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<210> 3698

<211> 783

<212> DNA

<213> B.fragilis

<400> 3698

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aagcaciaag	ctgccgcagt	atatctgctg	ggcgatatgt	tcgacttttg	gtatgagttc	180
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gaaccggatt	atatgggaga	aaataaagag	tttctggtgc	tttataccaa	ggaataactg	600
aaaagtcac	ctaataattaa	cttcttttatt	tacggtcac	gccatatcga	acttgacctg	660
atgttgagtg	ctacggcgcg	aatacttatt	ttgggggact	ggatcaactt	cttctcttat	720
gctgtgttcg	atggtgagaa	cctgttttct	gagaactata	ttgaaggaga	aacccaactt	780
taa						783

<210> 3699

<211> 372

<212> DNA

<213> B.fragilis

<400> 3699

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acaaggccgt	tattctttcg	taaccgggca	ctattctcta	accaaagggc	cggtttctat	180
accgatgcag	atgctgaacg	ggtagtgaag	gagttgaaaa	caatcgaaag	agaggccggc	240
agggagcagg	aagataaaaa	gaaagaaaag	gtatgcctgg	atattgatct	gcttgttttt	300

gatgaccgga tcttgaggcc ggaagatctg caaagagaat atgttcgcaa aggacttgaa 360
gaattgaagt ag 372

<210> 3700

<211> 1011

<212> DNA

<213> B.fragilis

<400> 3700

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gtcttttttc	tgctgaatct	gttggtgggc	tcggtttcca	ttcccatcgg	ttcgggtatg	180
aacatacttt	ggggcggaac	ggatgaatcc	gttatctggc	aaaatatcat	ctggaagtca	240
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cagatgcaga	ccatatttcg	taatccgctg	gcaggacctt	ctgtacttgg	tatcagttcc	360
ggtgccagcc	tgggagtggc	tttcgtggta	ttgtgtgccg	gagcatttgg	aggcgtggca	420
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ccgtgccatc	tttcatacct	cggatcaccc	catcctgatg	ccggccactt	tgctggcagg	960
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<210> 3701

<211> 213

<212> DNA

<213> B.fragilis

<400> 3701

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acgatgattt	caaaatcagc	cgcaactgta	gggggatttt	ttttggcaga	tatgatgtta	120
gtgggtgtaa	ataccccgt	gacactgata	aaagttgctg	catccacatt	ggatgtaccc	180
gaaatatact	ggaatgcatt	ttccgtagca	taa			213

<210> 3702

<211> 1053

<212> DNA

<213> B.fragilis

<400> 3702

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atagatgcaa	tgaaaatata	cttaccceaag	gggaataatc	ttgcaaatgc	gctgatggat	180
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tttgccgaag	ttgccaccat	atctcaacac	atgggcatct	ctcttgataa	aatagtaggg	300
gccgatttga	atgacaacgc	tattgttaat	ctgaatatgt	tgcaatgcca	acgccctgcg	360
gagacctatt	attctattat	cgattcgtat	ataaagttgt	tcgggtcaatt	gattgaacgg	420
gaaagttcgg	aaagaagcac	ctcttcaaat	accgttccac	aaaccctgta	tttaaagtat	480
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ggcagacatt	atgaagattt	ggagattcca	gaaaaattga	ttgacaagca	aaaagaattt	600
gtaaatctgt	ctcagctatt	ccagtcaacc	aattatatat	gggataaaga	gatatttatc	660
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ttaaagaagt	attcaacttt	gatttcgcag	agtggtgagg	ttcagcgaat	ccattttctt	1020
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<210> 3703
 <211> 210
 <212> DNA
 <213> B.fragilis

<400> 3703						
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aaatctgtgt	ctttttttac	ttacattttc	acgtatatat	tctataatcc	taaaggtaag	120
ctagttaagt	accaaataaa	aagtaacatt	gtccagccta	tcagtatata	taccgaatat	180
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<210> 3704
 <211> 598
 <212> DNA
 <213> B.fragilis

<220>
 <221> unsure
 <222> (22), (31)
 <223> Identity of nucleotide sequences at the above locations are unknown.

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ggaggatatt	gtgaaagggc	tcgattcggg	ggcggatgac	tatttggtga	aaccattcag	240
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ggagggtggag	atagaactca	ctgttaagga	gtaccgcttg	ctggagtatt	tcatgaccca	420
tcaaggcatg	gtgctttcgc	gcctgacatt	attgaaagat	gtatgggata	agaatttcga	480
tacgaatacc	aatgtggtag	atgtttatgt	gaactatctt	cgtggtaaaa	tagataagga	540
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<210> 3705
 <211> 273
 <212> DNA
 <213> B.fragilis

<400> 3705						
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gatcccatg	ccggaaattt	ggcttccaac	caacagatgt	gtttaaatat	aggacgaaaa	180
gaatgttttt	gctcacgttc	tttgtcatct	gaaagatttt	ccataacttg	caacttttat	240
cggttaagct	tgtacgatgt	cccattatgt	ttaa			273

<210> 3706
 <211> 183
 <212> DNA
 <213> B.fragilis

<400> 3706						
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acacatgccg	gattgaaaca	tgagctatct	catcgggagt	cggagatcct	gagagcgact	120
ttgcgaaaat	cagaatcaag	tggtcaacac	acagaatgta	ttactcgacc	tatggggaga	180
tga						183

<210> 3707
 <211> 711
 <212> DNA
 <213> B.fragilis

<400> 3707
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 atgactcaag acggcaagtc ctcttcacgg gcactctcca tctgaacac tctcggattc 180
 tcggacaccg tacagtgttt ccggcttcct atggacaagg acaggacact ggcattaaga 240
 tcttatgaag ctgtatatga aagcagcaaa atactccgtg cagagggaca aaacgtcgtg 300
 attgtggccg aaggagatgc ggggtctttac tcttccatcc actacatcta cgacaagctg 360
 caacaagacg acatccctgt tgaacagatt gccgggtattc ccgcttttat tgcttccgga 420
 gcgatggcgg gcctgcacat cgtcagtcag gaagagcggc tgatcgtgat accgggtcac 480
 gtcaccgcca aagaactgga cgactacctg aaacatcaga cggtagtggt cataatgaag 540
 ctatcgcaat gtatagacga ggtacaccaa tgtataatta accatccgga ataccaatac 600
 cactactttg aaaatgtagg gaccgagaag gaatactact cttgctccac cgaagaactt 660
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<210> 3708
 <211> 183
 <212> DNA
 <213> B.fragilis

<400> 3708
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 gtgggtattgg tattccggat gggttaattat acattgggtg acctcgtcta tacattgcga 180
 tag 183

<210> 3709
 <211> 1479
 <212> DNA
 <213> B.fragilis

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<210> 3710

<211> 723

<212> DNA

<213> B.fragilis

<400> 3710

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gatgtattgt	tgccgtccat	tactcaatat	tccggggaagg	acatgatacc	tgttgccatc	660
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<210> 3711

<211> 222

<212> DNA

<213> B.fragilis

<400> 3711

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<210> 3712

<211> 492

<212> DNA

<213> B.fragilis

<400> 3712

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<210> 3713

<211> 597

<212> DNA

<213> B.fragilis

<400> 3713

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<210> 3714

<211> 2049

<212> DNA

<213> B. fragilis

<400> 3714

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<211> 933

<212> DNA

<213> B. fragilis

<400> 3715

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<211> 954

<212> DNA

<213> B.fragilis

<400> 3716

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<210> 3717

<211> 285

<212> DNA

<213> B.fragilis

<400> 3717

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<211> 1167

<212> DNA

<213> B.fragilis

<400> 3718

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<210> 3719

<211> 2370

<212> DNA

<213> B. fragilis

<400> 3719

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<210> 3720

<211> 183

<212> DNA

<213> B.fragilis

<400> 3720

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<210> 3721

<211> 627

<212> DNA

<213> B.fragilis

<400> 3721

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<210> 3722

<211> 597

<212> DNA

<213> B.fragilis

<400> 3722

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<210> 3723

<211> 414

<212> DNA

<213> B.fragilis

<400> 3723

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<210> 3724

<211> 780

<212> DNA

<213> B.fragilis

<400> 3724

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<210> 3725

<211> 4491

<212> DNA

<213> B.fragilis

<400> 3725

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<211> 990

<212> DNA

<213> B. fragilis

<400> 3726

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<210> 3727

<211> 957

<212> DNA

<213> B.fragilis

<400> 3727

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<211> 717

<212> DNA

<213> B.fragilis

<400> 3728

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<210> 3729

<211> 1035

<212> DNA

<213> B.fragilis

<400> 3729

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<210> 3730

<211> 2178

<212> DNA

<213> B.fragilis

<400> 3730

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<210> 3731

<211> 1287

<212> DNA

<213> B. fragilis

<400> 3731

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<210> 3732

<211> 1404

<212> DNA

<213> B. fragilis

<400> 3732

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gacgtaattg	ccccggatgc	atatgcctct	ttttccatca	acattcccca	cgcacgaag	180
acacgtgcag	tatctacaga	tccgggaatt	gcagcggaaa	acactgtgaa	atccttacat	240
gtgtttat	atgacgcaga	atctcccaat	acacctactg	tagctgaatt	tacggctcga	300
ggaggtacac	tcacacagaa	accagccggg	agttctacct	ggatgaccag	ccaaccgatc	360
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aagatcaaca	tcaattctat	acaagcaccg	ggaaatcctt	cggacaattt	tgacagagga	1320
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<210> 3733

<211> 1407

<212> DNA

<213> B.fragilis

<400> 3733

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accaccatgg	cggttatcgg	agtgtttctac	ctgttcagtt	caaggtatat	cgatgggttg	180
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gaagtggatg	agcaaagcta	tcagaccatt	caacggaagt	atgatgagct	gctgccggag	300
gccaaagaga	ttttgttggg	tatggatagt	gatgccgtgg	tgcgtgatac	gctgaataaa	360
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<210> 3734

<211> 939

<212> DNA

<213> B.fragilis

<400> 3734

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gtgattgtta	tgagacatta	tctggaagga	gcagcacgct	atgcaagtga	agtggctccg	360
gtacctatcg	taaatgccgg	agacggagcc	aaccagcatc	cttcgcaaac	gatgctcgat	420
ctctatttcta	tatataaaac	acaaggta	ctggagaatc	tgaatatcta	tttggtaggt	480
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gaacgggtaa	aaaacgtata	tatccttaaa	gcgaaaatgc	ttgaaaatac	tcgttctaac	780

cttcgtattc	ttcatccgtt	accacgtgtc	aatgaaatag	cttatgatgt	ggatgacagt	840
ccgaaagctt	attattttca	acaagcacaa	aatggactct	atgcccgta	agctatactt	900
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<210> 3735

<211> 903

<212> DNA

<213> B.fragilis

<400> 3735

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gacatttgcc	ccggcaaaga	ttatcgcttc	gtacgtaccg	atatccggga	cgaaaatgaa	180
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gtaccggact	attgcgaaac	ccatcatgca	gaagctgaag	ctacaaatgt	tacagcagtc	300
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aattattacg	gtgttacgaa	actgaaagcc	gaaaagatta	tagccagcat	ttgtagtaat	480
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atccttcagc	tagtagccaa	ccggttgaga	aacggagaaa	cgatccgtgt	cgatccgat	600
caatggcgta	caccgacctt	tgttggagat	atctcagtag	gagtagaaaa	gctgatgttt	660
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gcctaccggg	tggctgattt	tctgaaactg	gatcgttcat	tgatcgaacc	cgctactacc	780
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aaagccgaaa	tccgggtacac	cccgcgcaca	ttggaagaag	gtatggaggc	ttctttgttc	900
taa						903

<210> 3736

<211> 735

<212> DNA

<213> B.fragilis

<400> 3736

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aaaggaacag	aagaaatatt	tcgccatgaa	ataccaaatg	ctgaggtaat	aggtacggca	120
atgactgaaa	atgaattctg	gcctttgatg	gaaacacaat	tacctgatat	ggtgttactg	180
gatttgggat	tggagggtc	tacaacaatc	ggtgtcgata	tatgccgga	tatctttaaa	240
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gcaaccagac	tggtgggtccg	tgcattagaa	cttcgtataa	ttgatttggg	caatctggaa	720
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<210> 3737

<211> 546

<212> DNA

<213> B.fragilis

<400> 3737

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caatacggag	atttcctgat	cgatatggga	ttgtttatag	cagctcctcc	caaactgccg	180
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aaactgaaaa	acggcatgcg	tctgaacacg	tatggggaat	ataatgccga	tggcaaaaaa	420
gtccctaacc	ctgccgccat	gccatgggaa	aagaacaact	tcaaaggggc	tttcgaaatg	480
aaatcttccg	atgggaattt	cggtatccgc	attgaagtcc	agcaggggcg	caactatcca	540
tattaa						546

<210> 3738

<211> 210

<212> DNA

<213> B.fragilis

<400> 3738

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ttttgtcttt	tttctgctga	atctgttggt	gggctcggtt	tccattccca	tcggttcggt	180
atggaacata	ctttggggcg	gaacggatga				210

<210> 3739

<211> 228

<212> DNA

<213> B.fragilis

<400> 3739

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aattatgcaa	caatcgga	tgtgtgtaaa	gacgtgtatc	tattttcgaa	acttcgtcat	180
aaacttttca	ccagttcttg	ttgccgggta	aagaaatgga	ttcgctga		228

<210> 3740

<211> 219

<212> DNA

<213> B.fragilis

<400> 3740

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gcattattat	taatgggtccc	ggaattattg	tttatacggg	tatcggtagt	tgacgtcgaa	180
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<210> 3741

<211> 957

<212> DNA

<213> B.fragilis

<400> 3741

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957

<210> 3742
<211> 1344
<212> DNA
<213> B.fragilis

<400> 3742

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<212> DNA
<213> B.fragilis

<400> 3743

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<210> 3746
<211> 702
<212> DNA
<213> B.fragilis

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<210> 3747
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<212> DNA
<213> B.fragilis

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<210> 3748
<211> 408
<212> DNA

<213> B.fragilis

<400> 3748

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<210> 3749

<211> 324

<212> DNA

<213> B.fragilis

<400> 3749

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<210> 3750

<211> 1713

<212> DNA

<213> B.fragilis

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 <212> DNA
 <213> B.fragilis

<400> 3751

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aaagcggcaa	tggaatcggg	gcgtgtttat	gtgtccggag	acaatctggt	taccttttcg	3180
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<210> 3752

<211> 225

<212> DNA

<213> B.fragilis

<400> 3752

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cgggtacgcg	tagaagggtc	aaagaacagg	gtagcgacta	ctttgccttc	caataaccgg	180
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<210> 3753

<211> 1224

<212> DNA

<213> B.fragilis

<400> 3753

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aaaaagaatg	gcccgtttgt	agaaacagat	aaaaacggaa	aagtgattcg	taaaggcacc	1200
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<210> 3754

<211> 339

<212> DNA

<213> B.fragilis

<400> 3754

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cggatcaagc	gcattgacgc	ttccgtacaa	aaaacagatt	cgaaggccat	ggcacctttc	180
aagtattcct	ttacggttac	ccgtggactg	aacgatatgg	tcaatccatc	tgaggaaaaat	240
gaaccggaac	gggaccaggc	tctgacagcc	ggcatcgaat	ttgagaaagc	tgttgaacag	300
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<210> 3755

<211> 465

<212> DNA

<213> B.fragilis

<400> 3755

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<210> 3756

<211> 1173

<212> DNA

<213> B.fragilis

<400> 3756

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tctgtgccta	caactaaatt	tgattctaaa	acaggaatgc	tcagaggtag	taataaggaa	180
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catagtaatt	tgaagaaaac	aatgatctat	gcgcattgtac	ttgatgaaag	caaacaggaa	1140
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<210> 3757

<211> 801

<212> DNA

<213> B.fragilis

<400> 3757

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cctgaaattc	gtcaggaact	gcatatcaac	gatagaaaca	tacaaacaga	cggtactctt	180
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<210> 3758
 <211> 1758
 <212> DNA
 <213> B.fragilis

<400> 3758

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<210> 3759
 <211> 240
 <212> DNA
 <213> B.fragilis

<400> 3759

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aagtgtctat	tgaagcaatc	cctgaaaaag	aaagctctga	taatgcaacg	caccgtcatc	180
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<210> 3760
 <211> 321
 <212> DNA
 <213> B.fragilis

<400> 3760

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<210> 3761
 <211> 867
 <212> DNA
 <213> B.fragilis

<400> 3761
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<210> 3762
 <211> 2115
 <212> DNA
 <213> B.fragilis

<400> 3762
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<210> 3763

<211> 477

<212> DNA

<213> B.fragilis

<400> 3763

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<210> 3764

<211> 408

<212> DNA

<213> B.fragilis

<400> 3764

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<210> 3765

<211> 231

<212> DNA

<213> B.fragilis

<400> 3765

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aaagcgtacg	gctacaatat	tgtaccttcg	aagatgggac	atcagagtgc	aaaccaatat	180
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<210> 3766

<211> 660

<212> DNA

<213> B.fragilis

<400> 3766

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<210> 3767

<211> 1083

<212> DNA

<213> B.fragilis

<400> 3767

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<210> 3768

<211> 237

<212> DNA

<213> B.fragilis

<400> 3768

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gaaaatgtaa	tttcggagct	tgacacagcg	acagagcggg	tgaagacctc	aacagaggct	180
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<210> 3769

<211> 465

<212> DNA

<213> B.fragilis

<400> 3769

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<210> 3770
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 <212> DNA
 <213> B.fragilis

<400> 3770
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<210> 3771
 <211> 1113
 <212> DNA
 <213> B.fragilis

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<210> 3772
 <211> 477
 <212> DNA
 <213> B.fragilis

<400> 3772

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<210> 3773

<211> 2742

<212> DNA

<213> B.fragilis

<400> 3773

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<212> DNA
<213> B.fragilis

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<212> DNA
<213> B.fragilis

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tcgatgatgg catcaaatac ccgtgacaac tctttaataa ccaaaaaaca tttctgtcac 180
ttgaaaattg ggtaa 195

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<212> DNA
<213> B.fragilis

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<210> 3777

<211> 642

<212> DNA

<213> B.fragilis

<400> 3777

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<210> 3778

<211> 369

<212> DNA

<213> B.fragilis

<400> 3778

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<211> 1533

<212> DNA

<213> B.fragilis

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<210> 3780

<211> 2406

<212> DNA

<213> B.fragilis

<400> 3780

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<210> 3781

<211> 546

<212> DNA

<213> B.fragilis

<400> 3781

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<210> 3782

<211> 2364

<212> DNA

<213> B.fragilis

<400> 3782

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<210> 3783

<211> 1080

<212> DNA

<213> B. fragilis

<400> 3783

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<210> 3784

<211> 1416

<212> DNA

<213> B. fragilis

<400> 3784

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<210> 3785

<211> 915

<212> DNA

<213> B.fragilis

<400> 3785

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<210> 3786

<211> 258

<212> DNA

<213> B.fragilis

<400> 3786

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tctgtatctt	ctgtgggtgag	ttttaacacc	ttaaattact	ttttttctat	ccaactgatt	180
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<210> 3787

<211> 882

<212> DNA

<213> B.fragilis

<400> 3787

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<210> 3788

<211> 1110

<212> DNA

<213> B.fragilis

<400> 3788

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<210> 3789

<211> 1398

<212> DNA

<213> B.fragilis

<400> 3789

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1398

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<212> DNA

<213> B.fragilis

<400> 3790

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<210> 3791

<211> 1599

<212> DNA

<213> B.fragilis

<400> 3791

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<210> 3792

<211> 510

<212> DNA

<213> B.fragilis

<400> 3792

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<210> 3793

<211> 438

<212> DNA

<213> B.fragilis

<400> 3793

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<211> 723

<212> DNA

<213> B.fragilis

<400> 3794

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<211> 2340

<212> DNA

<213> B.fragilis

<400> 3795

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<210> 3796

<211> 1743

<212> DNA

<213> B. fragilis

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<211> 210

<212> DNA

<213> B.fragilis

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<210> 3798

<211> 1434

<212> DNA

<213> B.fragilis

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<210> 3799

<211> 1272

<212> DNA

<213> B.fragilis

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<212> DNA

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<212> DNA

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<211> 297

<212> DNA

<213> B.fragilis

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<210> 3804

<211> 1344

<212> DNA

<213> B.fragilis

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<210> 3805

<211> 1377

<212> DNA

<213> B.fragilis

<400> 3805

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ggaagtatac	ctattatatac	aacttttcgaa	caggtgttag	gtataaaaaac	tgtattaatg	1260
ggatttggcc	tagaatcgga	tgctatccat	tctcctaacg	aaaactttctc	tttggatata	1320
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<210> 3806

<211> 900

<212> DNA

<213> B.fragilis

<400> 3806

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tatttttatg	taaaattcca	taatgtaaac	ggctctggac	aatcgagtc	ggtattcgct	180
gatggtgtcc	gtgtaggat	cgtccgtgat	attgcttacg	attacaatca	accggaaaat	240
gtaatagtgg	aagtagaagt	agatactgat	ttacgcatac	cgaaagggaag	ctcagccgaa	300
ctggtagccg	aactgatggg	aggagtaaga	atgaatat	tattggccaa	caatcctcgc	360
gaacgctata	cagtaggcga	tacgattccg	ggaacgctaa	acaacggcat	gatggagaaa	420
gttgacagca	tgatgcccgc	tgtagaaaag	atgttgccca	aattagactc	tatccttact	480
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acaacagcca	atctcgaagt	taccagccgt	caattgaaag	tattgatgaa	caatgatatc	600
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ccacaattat	acaataacct	gaaccaaaca	accattaatg	cagcaaactc	gcttgaagac	840
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<210> 3807

<211> 894

<212> DNA

<213> B.fragilis

<400> 3807

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actgttacga	ccaagtaga	cggaataaca	tcggctactt	caaagcccaa	tcaagtatct	180
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ggagtagtga	aacacacctc	actcttacca	gggcaacaag	tacggcaagg	tgccctgctg	300
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<210> 3808

<211> 1203

<212> DNA

<213> B.fragilis

<400> 3808

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aattcgccgg	caactttgtc	tattgctgat	gagatagagt	cagttgaata	tatccctttg	180
gaaatgacca	atgatgatgc	ctcattgata	gacggtgtgg	tagactttgc	catcacaagc	240
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cactttttgc	gtacattcct	tcgccaaggc	caaggtcccg	atgactttta	tggtatgata	360
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caggttggtg	caccttatga	gatagaaaca	tttaaagaac	aaactcaa	tactgtacca	1140
caagaattgc	aaaaaagaaa	tgccaatgaa	aatccgattt	tcatacatata	taagataaaa	1200
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<210> 3809

<211> 1053

<212> DNA

<213> B.fragilis

<400> 3809

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cagcaggcac	gggaagtagc	gaccgcacac	ttcggacagg	gagctacat	acgcggactg	180
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tacaaactcg	gattccgctc	attcgtttct	cagggaggcg	aagatccgaa	acggtcggac	360
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cagcgaaccc	cattctgtga	cgaaaaagca	ggtagtgtag	agctgacctt	gttactgctc	780
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<210> 3810

<211> 192

<212> DNA

<213> B.fragilis

<400> 3810

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attggctata	gcctcggtga	tattcatctt	ttctccgttg	cggaatgcaa	tgatgaaggc	180
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<210> 3811

<211> 1050

<212> DNA

<213> B.fragilis

<400> 3811

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gtctgtgtgg	ctgataacgg	ttctacggat	cagtcggtgg	agatgctgcg	ccgcgagttt	180
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<210> 3812

<211> 231

<212> DNA

<213> B.fragilis

<400> 3812

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gcatcttggt	gtaacaaagc	agctgacgct	gaaaaagcaa	ctgcagattc	tatccgtatc	120
gctgactcta	tcgcagcagt	agaagcagct	gcagctgaag	cagcagctca	ggcagctgat	180
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<210> 3813

<211> 441

<212> DNA

<213> B.fragilis

<400> 3813

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gcgcaggatt	tctcttatca	aaagaatgca	gaggaaacgg	aactgcaagt	aaaaatcggt	180
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gaatacattc	agcttatctg	ccggcctcag	aacggaaagt	cggaaacgac	caagatgtct	420
atccggctgg	tgaaaaaata	a				441

<210> 3814

<211> 249

<212> DNA

<213> B.fragilis

<400> 3814

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ggattgcatg	ccatcgggct	ggaagctctc	atcatcacgg	cagctgccgt	aaccggaagc	180
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aaaccatga						249

<210> 3815

<211> 714